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<110> Reynisdottir, Inga
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Grant, Struan F.
Thorleifsson, Gudmar

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<150> PCT/US0334681

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 Cys His Arg Pro Glu Gly Leu Glu Gln Leu Glu Ala Gln Thr Asn Phe
 35 40 45
 Thr Lys Arg Glu Leu Gln Val Leu Tyr Arg Gly Phe Lys Asn Glu Cys
 50 55 60
 Pro Ser Gly Val Val Asn Glu Asp Thr Phe Lys Gln Ile Tyr Ala Gln
 65 70 75 80
 Phe Phe Pro His Gly Asp Ala Ser Thr Tyr Ala His Tyr Leu Phe Asn
 85 90 95
 Ala Phe Asp Thr Thr Gln Thr Gly Ser Val Lys Phe Glu Asp Phe Val
 100 105 110
 Thr Ala Leu Ser Ile Leu Leu Arg Gly Thr Val His Glu Lys Leu Arg
 115 120 125
 Trp Thr Phe Asn Leu Tyr Asp Ile Asn Lys Asp Gly Tyr Ile Asn Lys
 130 135 140
 Glu Glu Met Met Asp Ile Val Lys Ala Ile Tyr Asp Met Met Gly Lys
 145 150 155 160
 Tyr Thr Tyr Pro Val Leu Lys Glu Asp Thr Pro Arg Gln His Val Asp
 165 170 175

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Val Phe Phe Gln Lys Met Asp Lys Asn Lys Asp Gly Ile Val Thr Leu
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 Asp Glu Phe Leu Glu Ser Cys Gln Glu Asp Asp Asn Ile Met Arg Ser
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 Leu Gln Leu Phe Gln Asn Val Met
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 aaaaatgagt gcccagtggt tgtggtcaac gaagacacat tcaagcagat ctatgctcag 240
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 actcagacag gctccgtgaa gttcgaggac tttgtaaccg ctctgtcgat tttattgaga 360
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 atctttaagc tcatcactgg gacctcagc aaag 214

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 <211> 107
 <212> DNA
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 <212> DNA
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 tcctgagagc ag 72

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115/203

<212> DNA
 <213> homo sapiens

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 tgggcaactt caggcaaatt tctaacacaa g 91

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 <212> DNA
 <213> homo sapiens

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 <211> 33
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 <213> homo sapiens

<400> 9
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<210> 10
 <211> 809
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 Glu Asp Glu Leu Glu Met Thr Met Val Cys His Arg Pro Glu Gly Leu
 35 40 45

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Glu Gln Leu Glu Ala Gln Thr Asn Phe Thr Lys Arg Glu Leu Gln Val
 50 55 60
 Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro Ser Gly Val Val Asn Glu
 65 70 75 80
 Asp Thr Phe Lys Gln Ile Tyr Ala Gln Phe Phe Pro His Gly Asp Ala
 85 90 95
 Ser Thr Tyr Ala His Tyr Leu Phe Asn Ala Phe Asp Thr Thr Gln Thr
 100 105 110
 Gly Ser Val Lys Phe Glu Asp Phe Val Thr Ala Leu Ser Ile Leu Leu
 115 120 125
 Arg Gly Thr Val His Glu Lys Leu Arg Trp Thr Phe Asn Leu Tyr Asp
 130 135 140
 Ile Asn Lys Asp Gly Tyr Ile Asn Lys Glu Glu Met Met Asp Ile Val
 145 150 155 160
 Lys Ala Ile Tyr Asp Met Met Gly Lys Tyr Thr Tyr Pro Val Leu Lys
 165 170 175
 Glu Asp Thr Pro Arg Gln His Val Asp Val Phe Phe Gln Lys Met Asp
 180 185 190
 Lys Asn Lys Asp Gly Ile Val Thr Leu Asp Glu Phe Leu Glu Ser Cys
 195 200 205
 Gln Glu Asp Asp Asn Ile Met Arg Ser Leu Gln Leu Phe Gln Asn Val
 210 215 220
 Met
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 <211> 227
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 Lys Ile Glu Asp Glu Leu Glu Met Thr Met Val Cys His Arg Pro Glu
 35 40 45
 Gly Leu Glu Gln Leu Glu Ala Gln Thr Asn Phe Thr Lys Arg Glu Leu
 50 55 60
 Gln Val Leu Tyr Arg Gly Phe Lys Asn Glu Cys Pro Ser Gly Val Val
 65 70 75 80
 Asn Glu Asp Thr Phe Lys Gln Ile Tyr Ala Gln Phe Phe Pro His Gly
 85 90 95
 Asp Ala Ser Thr Tyr Ala His Tyr Leu Phe Asn Ala Phe Asp Thr Thr
 100 105 110
 Gln Thr Gly Ser Val Lys Phe Glu Asp Phe Val Thr Ala Leu Ser Ile
 115 120 125
 Leu Leu Arg Gly Thr Val His Glu Lys Leu Arg Trp Thr Phe Asn Leu
 130 135 140
 Tyr Asp Ile Asn Lys Asp Gly Tyr Ile Asn Lys Glu Glu Met Met Asp
 145 150 155 160
 Ile Val Lys Ala Ile Tyr Asp Met Met Gly Lys Tyr Thr Tyr Pro Val
 165 170 175
 Leu Lys Glu Asp Thr Pro Arg Gln His Val Asp Val Phe Phe Gln Lys
 180 185 190

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Met Asp Lys Asn Lys Asp Gly Ile Val Thr Leu Asp Glu Phe Leu Glu
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 Ser Cys Gln Glu Asp Asp Asn Ile Met Arg Ser Leu Gln Leu Phe Gln
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 Asn Val Met
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 <212> PRT
 <213> homo sapiens

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 20 25 30
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 35 40 45
 Ala Gln Phe Phe Pro His Gly Asp Ala Ser Thr Tyr Ala His Tyr Leu
 50 55 60
 Phe Asn Ala Phe Asp Thr Thr Gln Thr Gly Ser Val Lys Phe Glu Asp
 65 70 75 80
 Phe Val Thr Ala Leu Ser Ile Leu Leu Arg Gly Thr Val His Glu Lys
 85 90 95
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 100 105 110
 Asn Lys Glu Glu Met Met Asp Ile Val Lys Ala Ile Tyr Asp Met Met
 115 120 125
 Gly Lys Tyr Thr Tyr Pro Val Leu Lys Glu Asp Thr Pro Arg Gln His
 130 135 140
 Val Asp Val Phe Phe Gln Lys Met Asp Lys Asn Lys Asp Gly Ile Val
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 Thr Leu Asp Glu Phe Leu Glu Ser Cys Gln Glu Asp Asp Asn Ile Met
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 Arg Ser Leu Gln Leu Phe Gln Asn Val Met
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<210> 15
 <211> 333
 <212> DNA
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<220>
 <221> misc_feature

118/203

<222> 88, 164

<223> n = A,T,C or G

<400> 15

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acacacacac acacacacac acacacggag tagaaatttt tagtgcaatt ttttgtctca 240
cagcattaat taattgcagg gatataacta ccttggcaga attttttctc cccaaccac 300
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<210> 16

<211> 166

<212> DNA

<213> homo sapiens

<400> 16

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<210> 17

<211> 333

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> 88, 164

<223> n = A,T,C or G

<400> 17

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acacacacac acacacacac acacacggag tagaaatttt tagtgcaatt ttttgtctca 240
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<210> 18

<211> 166

<212> DNA

<213> homo sapiens

<400> 18

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<210> 19

<211> 360

<212> DNA

<213> homo sapiens

<400> 19

```

ttgttgttgt tgggtggtgg ggggtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 60
ttcgagacag actctcactc tgtcaccacg gctggagtgc agtggcacga tctgggttca 120

```

119/203

```

ctgcaacctc tacttctccta gctccaagga tctctctcacc tccacctccc aagtagctgg 180
gactacaggt acgcgccacc atgtctggct aatttttttg tattggagag acagggttcc 240
accatgtttgc cggggctagt gttgcactcc tgagctcagg tgatccaccc acctcaacgt 300
ccccaagtgc tgggattaga ggcgtgagcc accacgtctg gcctatacac tatagagttt 360

```

```

<210> 20
<211> 212
<212> DNA
<213> homo sapiens

```

```

<400> 20
tctggacagg accaggagtt ggctgctgtc agcctttgcc ccacctctct gtggctactg 60
ggtatgtgaa tctctcaagg cctgaagaga ggacagctga ggaatttgga aatcctaaaa 120
cacatgcata cacacacaca cacacacaca cacacacaca cacacacact tttctttccc 180
ttaaaaaaaaa aaagattcat tcaccgtgtg ca 212

```

```

<210> 21
<211> 347
<212> DNA
<213> homo sapiens

```

```

<400> 21
ctgtctacac taccacacca ttagtcactt attagccctc tgaattactg gattgaaaaa 60
acatagtata tatatagggc ttggtactat tcacggtttc aggcattcac tgaggggtgt 120
tgcaatgtat ctccacgga taaggaagga ctggtatatt aacactttta tttgatttac 180
aaaataaagg atagtttata tagttctggg taaaattaat taattaattt aaaaggaaaa 240
aagataaagg caaactttta gcttggttaa aattaagtaa aataatttgg attattttaat 300
tggaacaaga ggactggcct tgccaatgaa acaatatggc cgacatg 347

```

```

<210> 22
<211> 195
<212> DNA
<213> homo sapiens

```

```

<400> 22
ggaccttctt tctgccctaa aacgcgaata tcattataat aacaaatata tatatatata 60
tatatatatt tttttttttt aaaacaatct tgctatgttg cctaggctgg tgtggaactc 120
ctggcctcaa gtgatcctcc cacctcggcc tcccagagtg ctgggattat agacatgaac 180
taccataccc agcca 195

```

```

<210> 23
<211> 308
<212> DNA
<213> homo sapiens

```

```

<400> 23
cacagccatc aagttttccaa cttactgcct cacatatata gatgattttt ttaaacaac 60
ttaacaggcg atggatactc cattctccat gatgtgctta attcacatgc atgcttgat 120
caaaacatct cacatactcc ataaagcctg taatcccaac actttgggat gccagggtgg 180
gtggatcact tgagcccagg agtttgagaa cagcctggac aacatggcga aaccccat 240
acacacacac acacacacac acacacacac accacacaaa caaatgaaa caaacaccta 300
accaacaa 308

```

```

<210> 24
<211> 305
<212> DNA

```

120/203

<213> homo sapiens

<400> 24

```

tcctaacggc tgctaccact aaagatctta gcatgggtgtg tgtgtgctgtg tgtgtgtgtg 60
tgtgtgtgtg tgtgtgtgtg tgggtggggct attcagtaag gctagaagtg aaaaagctag 120
tagaaagccc atggtgatgg agaatggagg aagactgatt agggagctcc tcagcagtat 180
aaggaaggac taagagcaca taaggacagg atcatagaat tccgcatctc aggatttttg 240
aggctgccac tgccttagct gtgaggccag tgcataaag aatagtttgc acagttctgc 300
tgtgg                                     305

```

<210> 25

<211> 370

<212> DNA

<213> homo sapiens

<400> 25

```

cctctgggat tagcctctca gggtagacat ataacgatga ttgagttggc ttatgtatgt 60
gtgtgtttgtg tgtgtgtctg tgtgtgtgtg tgagagagag agagagagag agagagagag 120
tgacagagag agaattgagag agaactggaa gttgtcaaca agaagagtca aactctgtaa 180
aatatttgaa gagattttatt ctgagccaaa taggagtgcc acagccccgg gagatcctaa 240
gaacatgtgc ccagagtagt caagctatag tttggtttta tacatttttag ggagacataa 300
gacatcagtc aatacatgta agatgcacat tgatacactg gtttagtagg gaaaggtggg 360
acaactcgaa                                     370

```

<210> 26

<211> 251

<212> DNA

<213> homo sapiens

<400> 26

```

ggtgccaaatt aaatccaaca aggtagctga gtgtgggtggg gcacgcctgt agtcctagct 60
atgcaggagg ctgaggtggg aggatcactt gagcctggga ggtagaggct gctgtgagct 120
gtgattgcac cgctgcattc cagcctggga gacagagcaa gatcctgaca cacacacaca 180
cacacacaca cacacacaca cacacacaca cattccaaca aggtaatgtg taggaggaag 240
taccagagct t                                     251

```

<210> 27

<211> 335

<212> DNA

<213> homo sapiens

<400> 27

```

caactcctgc agccctttac gccaaacaca gaaatccagg aggcagagcc tagcgcttga 60
tgacatggta attgggcctg gaagtgggga tttctgtcac ttacctctcc ttgaaaaata 120
atcactattg ccaacgcctg gttaattagc ctgattcaat tctcttcagc ctcattttgc 180
tcaaattctac cagattttgtg gtgtctccttg gtcctccacc acactttcta cccctcatcc 240
cacttttgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 300
gacatggcca ggaatcctga ctggcttcct ttaaa                                     335

```

<210> 28

<211> 167

<212> DNA

<213> homo sapiens

<400> 28

```

aagaccaccc tcctgtttgt ctctcctgaa atgtattcat atccacccat acacacacac 60
acacacacac acacacacac acacacacac acacacacac acattctctc tctctctctc 120

```

121/203

ttttctctctc tctctttaa gtcagttttc tcttctgtct ttccaga 167

<210> 29
 <211> 255
 <212> DNA
 <213> homo sapiens

<400> 29
 cttgacattc agggccttct gagtacatca tcttgtcaag aaacactgaa ctattcagta 60
 cacaacaggt cagagggtgcc catttgatag cctgaggatg gaatccttat tgcagcattt 120
 tgcgtcatgc cacatatatg tgttttttca atcctcctct gtttttaaaa ttggaaaatt 180
 tcatacaaca cacacacaca cacacacaca cacacacaca cacacacacc ccccatacca 240
 caccacacca catca 255

<210> 30
 <211> 152
 <212> DNA
 <213> homo sapiens

<400> 30
 agcctctgac tctcctctgt ggggctaata cagaaaatct tacttttagaa ataacaataa 60
 taataataat aataataata atacctcatt catctttact tatcatgtgc tagtatgttt 120
 ctaagccttt tggcatagcc ttcaatgtcc ct 152

<210> 31
 <211> 230
 <212> DNA
 <213> homo sapiens

<400> 31
 ctcttcccat gtctctgttc tctccttctt gggggttggg acccagtacc ctccatctct 60
 ctcaactctc cctctcctc ccttctttt aggaaggag tccaaatcga ccacttacac 120
 ctcaattcaa tgcaagccag tataattaat aaggaacatt taagggtgtg taagggtgtg 180
 tgtgtgtgta tgtgtgtgtg tgtgtgtgtg tagctcactc tgctctgtgc 230

<210> 32
 <211> 360
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc feature
 <222> 33, 36, 72, 281, 311
 <223> n = A,T,C or G

<400> 32
 gatcaccagg gaatctagat ggaatccata gtncnccct gcaagaatgc tgcaattctg 60
 taccgtggag gngccaacag aatcaccagg ctctgtgact cagtcacaac accctgacct 120
 gccctgtcc attctccata tcataccag agtgggtctt tcaaagcaca gctttgacca 180
 attctctgtc ttccacacat acacacacac acacacacac acacacatgc gtgcatgcat 240
 gcctgaaata gtatagtatt gctcttaaga taaacattaa ngttcctacc atggtacaga 300
 aaatatatgt ngttaggccc cgtggctctt tcttttccag actcctctta cctttttgtg 360

<210> 33
 <211> 133
 <212> DNA

<213> homo sapiens

<400> 33

```

aaatctttcca ttgcagacca attaaaattt aaagattttc tctctctttc cccctcttct 60
ctctctctct ctctctctct ctctcacaca cacacacaca cacacacaca actctccaag 120
cacaaagagc tga 133

```

<210> 34

<211> 245

<212> DNA

<213> homo sapiens

<400> 34

```

tgagtggatg agggagaagg ataaaagtca taaaatgcct cgcaaaaact ttgaggtctg 60
cctgcctggt attacagaga agcttgacac atacagaatg ttttgtggga aggaaggcag 120
gcaggcaggc aggcaggcag gcaggttggt tatgttttca ctcttgatat ctcaaagctt 180
tatgacacac tcatggagtg aacataatct ttgtggcatg atacaaaggg actgaatcac 240
tcaag 245

```

<210> 35

<211> 278

<212> DNA

<213> homo sapiens

<400> 35

```

agctatgata atgccactgc actccagcct ggctgataga atgagattct gactcagaaa 60
aatataaaca cacacacaca cacacacaca cacacacaca cacacacaca cacacaactt 120
tctgtctgcc cccttgctct tctgttccca tctctgcctt tcttctttcc tctctttgtc 180
aaatctcctt cgtctgcctc acaaaggcca gtgagcccca gccgcagacc aggggaagcca 240
gcaaattagg aattttcttc acaaagtttt gagtagct 278

```

<210> 36

<211> 184

<212> DNA

<213> homo sapiens

<400> 36

```

tctcccatct cctccctagc tatccctgc ctggtaatca ctgttttggt ctctatttct 60
gtacagttgg gtttttggtt gtttggttgt ttttagattc cacatatact tgaaacaatg 120
caatcttttt ctttctttgt ctggtttatt tcacttaaca cagtgcactc caggctcgtc 180
tatg 184

```

<210> 37

<211> 377

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> 124, 175, 320

<223> n = A,T,C or G

<400> 37

```

ccagaaagct tcaccaaggg gcgagcatga ttatgcatga gtttcttaaa tctggacttc 60
ccgacagctt ctcatgacag gtcttctgtg gaagactcct tagattcaga ccacagggcc 120
tttnaaaagc acaggaaact actttacctc gcccaactct acggatggga taggnactta 180
caaggacatt tcctcattgg attccaatgt tcattctccc cttctctctc tcaattaatc 240

```

```

tccccctctt ctctttctat ctacacacac acacacacac acacacacag agagagagag 300
agagagagag agagagagan agaaacagct tcttcacagc gggaagcagg ggaagggtat 360
ctatttccgg caagatc 377

```

```

<210> 38
<211> 379
<212> DNA
<213> homo sapiens

```

```

<400> 38
aaagtcagct agggcgactg agccagagag atggggcaca cagcaagagg agacctgaca 60
aagtgcagggt gtgtcctaga gaaggcaagc gagaccactg catgattgga ataccagcca 120
acccttgccct gttcttggttc cagcaaagtg ccctttttaa ataaatttat gtatatagtc 180
tctgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtataga catatagaaa tatatattcc 240
taattcagaa ctcatctgta agtgcacaca ctgacatgtg tttcatgttt cccaatttat 300
cccagagcct atatgcagtg tttggctgca caagtaggca ttaaattgcaa ccactgggaa 360
tgagaatggt ggccacaac 379

```

```

<210> 39
<211> 370
<212> DNA
<213> homo sapiens

```

```

<220>
<221> misc_feature
<222> 24, 97, 104, 274
<223> n = A,T,C or G

```

```

<400> 39
agctttgaaa tcccatccaa actnattggc gtttcaaact gaatcccaga tgttcactta 60
ctgagaaata aatgaatggc ccaattcgtg gactgangca gggncctca caaatagatt 120
ccagggtgtg tggcctctgg accactatct ttctctgttt tacatacaca tacatacaca 180
cacacacaca cacacacaca cacacacacg gcaccaagtc catcctgaaa 240
agaattcaac gtcattctcca agttagagcc agtntaggat gaacagagggt agttacctaa 300
cacaaataac atattttcaa ttgtggatga aggcaaaggg ctccacattc acactcttgt 360
gccttcaata 370

```

```

<210> 40
<211> 154
<212> DNA
<213> homo sapiens

```

```

<400> 40
ggcatgggat gtttgacctt agagatggac taaagccaat gagtaaaaaat gttaaagcgta 60
cttagtcaaa taaattcttc tctctctctc tctctctctc tctctcctta ttcactcact 120
ttgggcccgtg atgatgatga gggagaggag cagt 154

```

```

<210> 41
<211> 390
<212> DNA
<213> homo sapiens

```

```

<400> 41
tatttgccctg cctgggttag atgattctcc aggtttctac acaattttat gtttatatga 60
aaatagccac aaagggaataa gaggacaata aaacaagaga tatgaataat aatgtattgt 120
atacttgaaa tttgctaaaa gagtagatct caagtgttct acatacacac acacacacac 180
acacacacac aaaggtaatg aatgagatga taggtgttaa ttaacttgat tgtgggtaac 240

```

124/203

```

acttcacaat gtatacatat aaaaacatca tgttttacaa cctacattta tacaattcct 300
caattatata tcaataaacc tggaaaaata aagatgtata aaaaagattt acaaataaga 360
tttttaaaaa aggattgtga ggaaacaaag                               390

```

```

<210> 42
<211> 192
<212> DNA
<213> homo sapiens

```

```

<400> 42
accagctaac ctgccatgag actggtgtgt agccatcttc acctcctcat cttcagggaa 60
ggggatgaaa atatctgtgc actgcaaagt ttaactatat atacacacac acacacacac 120
acacacacgt acagtaggcc ctocataacc tgagggttoca catctgcata ttttaccac 180
tctggtccct gc                                                    192

```

```

<210> 43
<211> 242
<212> DNA
<213> homo sapiens

```

```

<400> 43
ttgttcctga atgggaggag gactggtgag tgagggggaa agaatggaga caggactgag 60
aagaaccaga aattaaaata atagtagtaa tagcctaaca tgtacacgta tatgagatct 120
atctatctat ctatctatct atctatctat ctatctatct atcatctata tatctatcat 180
ccatcatgta tctatctatt tgcatatata agctataata tctggctctg ttctaattgt 240
tt                                                                242

```

```

<210> 44
<211> 249
<212> DNA
<213> homo sapiens

```

```

<400> 44
ccaggcttgg atgagagaat aatcttaagg aagtcagcat atgttctaga aacattcaga 60
agacaaaaga gtctgttatg aaagaacaaa gtatttgtaa taataaattg aatgtttacat 120
ggacacaccc agacatacac acacagacac acacacacac agtttttctt ctctctctct 180
ctctccccac tcccctctct catactttgc aaacaagctc ctcagcagct ggtaagctgt 240
tccctgtcc                                                    249

```

```

<210> 45
<211> 305
<212> DNA
<213> homo sapiens

```

```

<400> 45
tcttgactgc tcaaagctca aggtgttgcc tttttcaaat gggatgcaat agcctactca 60
ttttccaaga tttaaagctag agagaagaat gaatgaatga ataaataaat aaataaataa 120
ataaataaat aaataaatga gcaaagttaa tattagctgg aaaaaatagg gtacaggtgg 180
aaggaatgaa cccatattga gagtccacta tgtgtcaaat tccttgcatg gaatctctaa 240
gggtctgtcta gcttaaaagc aatgccagcc ttgctatctg tacttgatga ggagatggat 300
cggaa                                                    305

```

```

<210> 46
<211> 353
<212> DNA
<213> homo sapiens

```


125/203

<400> 46

```

ccaaactgca aacccaaact tctacaatga attcatgtgc aacttattct aaaagatcta 60
tacacacaca cacacacaca cacacacaca cacacacaca cacttcctgt cctattgctc 120
ttcactactt ccttcatctc tgtgctacaa tctgggttca tttttcttcc ccttgagtaa 180
tttattatgt tttttacagt gagtctgttg ctcaaaaatt ctttttagtat ttatttgtat 240
aaaaagtctt aattttgtct tcatataaaa ttttgtttga cactctatta taaattgact 300
gttattctct ttccatgttt tccggacata gttccattgt cttctgactt cca 353

```

<210> 47

<211> 267

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> 4, 55, 133, 189, 227, 228, 252, 259, 263

<223> n = A,T,C or G

<400> 47

```

ttcnacctta tgggtatatc gaattgtaac cccgttgtag gtcaaggagc atctncatat 60
atacatatcat agatgataga tagatagata gatagataga tagatagata gatagataga 120
tttaattcta aantttccaa ataactcttc atttaaataa ttatagtttt acaacaattt 180
catatatntnt ataggtagga gaattagggt tttccagaga aatagannca ataggctgtg 240
tgtgtatatata angatttant ttnaaga 267

```

<210> 48

<211> 299

<212> DNA

<213> homo sapiens

<400> 48

```

gttgggcatg atggtgtgta cctatagtc tagctacctg ggaggctgag gcaggaggat 60
ccttgagcc caggagttaa agactaacia gactccatct ctgaaaaata aggcaaaaaa 120
agtatgaaga ataaaataac aatcaattac attccaacca cctataatta atcattgcc 180
acacctgagg atatttgctt ccaatctaca agactgcatt attattatta ttattattat 240
tattattatt attattatta ttattattat tgagatgggg gtttctcttt gttgcccag 299

```

<210> 49

<211> 393

<212> DNA

<213> homo sapiens

<400> 49

```

gcagacaggg ttcaaattcc agcctcccct catattagct gtgtgatctt aggcaagttt 60
attcatgtgt aaaaagaaat aataacctct tctcgtgggg ttgcagggtta aacaaaagag 120
taggtattaa aacaactaaa agagtatgat tggattgttt ataacacaaa ggataaatgc 180
ttgaggacat ggatcccat cttccatgat gtgattttta tgcattgtat gcctctatca 240
aaacatctca tttactccat atatatgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 300
gtgtgtgtgt gtatgtgtat gcacacacta tgtgccaca aaaattaaaa attttaaaaat 360
taaaaaattt taaaaataaa catgctgctg ggc 393

```

<210> 50

<211> 201

<212> DNA

<213> homo sapiens

<400> 50

126/203

```

agctgccagc acacaaggcc cagaggtact ttattggatg ccaaattctt ttaacacacc 60
atgagaaaag aagttgacaa ctttcccatg cattttggaa ggtgtgttag aacgattcaa 120
cacacacaca cacacacaca cacacacaca cacacacaca cacatttatt gggttggggg 180
agccttaaaa cttacaaatc t                                     201

```

<210> 51
 <211> 246
 <212> DNA
 <213> homo sapiens

```

<400> 51
aatttcttac cttttatccc cgtcttctac tcccattcca catgcccccc acccccatg 60
aatgatttgt ctaatgcggt gaatatgcac gtgtgggttt ggtgtcatgt atgtttacac 120
acacacacac agactctctc tctctctctc tcacacacac acacacacac acacacacac 180
acacactcat gcctctcctt tgaagaggat cagatatgga cagcaaaggg cattagcatc 240
ttagct                                     246

```

<210> 52
 <211> 351
 <212> DNA
 <213> homo sapiens

```

<400> 52
gctccaaagt tcctgattcc aaagcctaag ttaagccatc ttaacttata tttcaggtga 60
ctagtgaat tttttatgcc cagtgtaggt ggtaatgacg atggagatat ggcgatgatg 120
atgatgatga tgatgatgat gatgatgatg atggcagtag tgggtggtgg gttggtgatg 180
gtgttgaaga tcaccatgtc tgaccactgt tgtctgtgtc ctttgtacaa ttgttcagat 240
gcagtgtcct ggttgtcaca tagatgtctc tgactgtttt acaggccttc acctaccacc 300
atatccagga gatcatggtc cagctgctgc ggacagtga cgggacagtc a 351

```

<210> 53
 <211> 364
 <212> DNA
 <213> homo sapiens

```

<400> 53
ttaaccact gctcccattt tgctgggtgga aaactgaaaa ccaaagagat taagtcattt 60
accdaaggtc atgtaactaa tatattgaat ctcatagtt ttaatgattt tgactcattt 120
ccaatttgcc tggctatata gagaaaatat ttgaggaatt gacagggaac acacacacac 180
acacacacac acacacacac acacacacac acagagggag ggaggggaga gagagagaca 240
gagacagaca gagactgaac agattatttc tccactgatg ttcattattt agatctattt 300
tcaacattta aaggcaattg tcagcatagt caattcagcc attttaaacc atcaagggcc 360
aatg                                     364

```

<210> 54
 <211> 161
 <212> DNA
 <213> homo sapiens

```

<400> 54
gcaacctatt tgttagcagc acatgcgtgc gtgtgcatgc acgtgggcac acacacacac 60
acacacacac acacactctt tgcaggggaa ttttgagcca gaaatttatt tgtaggccca 120
tattcattcc tttttgcaca tttctattgt gaccttgggc a 161

```

<210> 55
 <211> 269
 <212> DNA

127/203

<213> homo sapiens

<400> 55

```

caattccaca cagctggaga gtaacaaagc cagaaatcac atccatttgt gtgtgtgtgt 60
gtgtgtgtgt gtgtccaaat cctgtgattc cagtgccagg atacactgtc ttccgtgttc 120
aacagtcatt aaagtatttt aatgaacacc tggccctgca gtgcctgatg tagcaaatgc 180
tgcagatact ccacccaccg actcttggac caccctaaaat ccactggcag cttcagttag 240
gctttcctac ttctttcttt ccctgggct 269

```

<210> 56

<211> 251

<212> DNA

<213> homo sapiens

<400> 56

```

cactggactt ggagtcagga catcatttta acagctttat cgagatgtaa ttacatgcc 60
atacaattta cccaaagtgt acaatcattg actcttagta tgttcacaga gctatgtaac 120
catcaccaca atcaatttta caacattttc attactccta aaaagcaaac ctgcaccct 180
tagccactgc tctgccaaca cacacacaca cacacacaca cacacgcgtg cgcacacaca 240
cccaaact c 251

```

<210> 57

<211> 141

<212> DNA

<213> homo sapiens

<400> 57

```

cgcgtgtacc tccacataga tggttgccaa tgcctatgcc caagacacac acacatacac 60
acacacacac acacacagga tacattcaag cacacactaa tgtatgtgca cttgcctgca 120
cagagtccac atcacacagg c 141

```

<210> 58

<211> 328

<212> DNA

<213> homo sapiens

<400> 58

```

agcttctagt ctgctatgtt gctaattgtc ttcttgggtc tcttttaaaa ccatttctgt 60
gaaattatag cctccttact cccttaccct gactctggat gtttctgaag atgactgac 120
tctacagtga gaaggccctg ggaattgact gactcactct ctctgtctct ctctctctct 180
ctctcacaca cacacacaca cacacacaca cactcatata catacacaca tagatacaca 240
tatacatgca tccacacatg cacaccctgg gcacaccac acaccctaca actgcacatg 300
catgcacaca cataatgtta actgaagg 328

```

<210> 59

<211> 313

<212> DNA

<213> homo sapiens

<400> 59

```

agcttttggc tatggaacct taggcaagat gttcataaac cctttaatct ctagtgcct 60
tggtcataaa aagaagtga tgggatccct gcaggactgt ttttgtattc agtgcacagg 120
tgtgtgtgaa gacaccagc atgttgccag gcacacagag atgtctacct tgatactttt 180
ctctctctct ccccgcaaat acacacacac acacacacac acacacacac actcacacac 240
tcttattttg atcttggcct gaggttgaca agccccagat tagtgatcag tgacaatttc 300
ggctttatca gct 313

```

128/203

<210> 60
 <211> 242
 <212> DNA
 <213> homo sapiens

<400> 60
 cgaggatgca cacctcatta attgaggagc taggatttag atccagagcc tcatgattct 60
 aaagcctgtt ttttgtttgt ttgtttgttt gttttgtttt ggccacacta ggtttctaga 120
 aacttccagt tccttcttaa aagtcctttt tgggcattcc ggcctaaatc ccaaaactgt 180
 ggtctgggta caagagagaa ttagggcagt gagaaaaatt taaaccaccc tgcctctaa 240
 at 242

<210> 61
 <211> 623
 <212> DNA
 <213> homo sapiens

<400> 61
 cttgatgtct tctttcacca tcccttgga cccgcctata catttattac ttgaaacaga 60
 ctgaccttta tttggtttag ccaactgtgt caggtttctg caacatgggg tcacatgcct 120
 tcccaactga cacaagtctc aagctccttt tctcttcttt ttataacttc tagaagcata 180
 gcttctacca gataaggatc taaccttttc agtggaacac aaaaatggca aagaagtaaa 240
 gaaagaagag agagaaagaa gaaagaaaga aagaaaagaa agaaagaaag aaagaaagaa 300
 agaaagaaag aaagaaagaa agagagaaag aaagagagaa agaaagagag aaagaaagag 360
 agatggagag aggggaaggaa ggaagaaaag aaagagaggg agaagaaaga agacagggaa 420
 ggaaagggaa gggaaaagag ggaaggggag aggggaggac aagggaaggg gagaggggag 480
 gacaagggaa gggaggaagg aagaaaggaa ggaaggaagg caggaaggaa ggaaggaagg 540
 aaggaagaaa ggaaggaagg aaggaaggaa aaataactag ggcctttcac ttttgccttc 600
 aatagcagag tggccctgga tat 623

<210> 62
 <211> 372
 <212> DNA
 <213> homo sapiens

<400> 62
 tattggcaga ggggtgagtc agtgtataaa agcaactata tttgtgcaat aaggcaacct 60
 ctaaacacaa gttactactt catctaatgc cacacacaca cacacacaca cacacacaca 120
 cacacgagtc atctgttcca aggtgtttgc ctttactaag tgatgctatg ttggtccttg 180
 aggtggtgcc ttcttgaggg ttttcaagca tagctttggc catgcacagt tttcttctta 240
 tacacactct gaggagcccc gcggtcacgg taatgcacct gcctcacaag ctggtgggca 300
 gcttaaatga aatacacatt ttgtccagg cccagcacta gctcatcaat gtgagctggg 360
 gttagcctca cc 372

<210> 63
 <211> 140
 <212> DNA
 <213> homo sapiens

<400> 63
 cagtagccag gaagctgagg aacacacaca cacacacaca cacacacaca cacacacaca 60
 aacacacccc ttcttggtc cagttccgca ccacccaca cccccaacac cggaagtaga 120
 tttctcaata ggcagggctg 140

<210> 64
 <211> 301
 <212> DNA

<213> homo sapiens

<400> 64

```

tttgccagaa tgtcctcaca ccaaatagtg gaccccttct tttgctgatt tatctgctat 60
tgtataggtg tatgtgtgtg tgggtgtgtg tgtgtgtgtg tgtgttaagg caggtggtag 120
tatgtgtagg gtagggtttc cccagtcacc tggagccctg agtgccctgt tccctaaact 180
aggccagttt agctgactgg ctctctttgt gtattgggtcc attctgcac aaagcatct 240
gaattttcat tcaatctctc ttctgaattt tcacttttaa aaacctgacc agtcccttgt 300
g                                                    301

```

<210> 65

<211> 203

<212> DNA

<213> homo sapiens

<400> 65

```

ctctccatg gtagggactg gttctcttag gccctgtat cctcaggccc agcatgcttg 60
ggaaaatggt tgctaagtct ttgtgactca aaaggaatca cacacacaca cacacacaca 120
cacaaacaca cacacacagt ttttaatat atcagtcata tcagcccccct gaggcagctg 180
ctctgttcca gacaaacct gtt                                                    203

```

<210> 66

<211> 138

<212> DNA

<213> homo sapiens

<400> 66

```

gggtacagga gagttgtggt gggcattagt actactcctg ctgctgctgc tgctgctgct 60
gctgtgtcca ctgttagtga cagaagtggg aaaatatatta agttgagttc acattagtgt 120
tcccagttta gcgtgagc                                                    138

```

<210> 67

<211> 250

<212> DNA

<213> homo sapiens

<400> 67

```

ccatgagttc aggagtgagg ttaaataaga ttcccttga agtcgaatga aatcacaaatg 60
caccacacac agggacacac acacacacac acgcacgcac gcacatcaca cacacacaca 120
cacacacaca cacacacaca cacacatata cacacacagt ctccctgggg ccaatctact 180
gccccctgaa cctcaccat cagccagggt cctggccccg ggtctgtctc ttaggggttac 240
atgctcccgg                                                    250

```

<210> 68

<211> 664

<212> DNA

<213> homo sapiens

<400> 68

```

acttatggaa cacctactca gtgccaggta ttgttgtaga tgccaggagt acagcaggga 60
ataaaacaac atccctgtcc tcgacacaaa cacacaagta aatagagaag gtcagagata 120
aatgctgtgc aggaaaacaa agcaaagtga gggatggaga gtgcggaagg ttggggcact 180
tttgtttcag atgagtgtca gggaaagccc ctggaggag gcactgtaag ggcacagaat 240
cgaatgaaag gagtatgtga aggtgcttaa attgtttctg tttggtttgg tgtggtgtga 300
tgtggtgtgg tgtggtgtgg tgtggtgtgg tgtggtgtgg tgtggtgtgg tgtggtgtgg 360
tgtgatgtga tgtggtgtgc ggtgcggtgc ggtgcggtgc ggtgcggtgt ggtgtggtat 420
gggttgaggc tggccttagg agcctgttgg ccttcaggc cagtccctgaa gcccagccca 480

```

130/203

```

gagcaccaga ctctgcagtc agtcagtggg gggccacat ctcagccaat gcatggcttt 540
gggtggtgac ttcattctcc ctagtgttcc tttccccctc tgcaaaatgg gaatggggat 600
ggctcagaac tcccagcggg agttaggagg aataatgtat aggaagtatg agcagagtgc 660
ctgg                                             664

```

```

<210> 69
<211> 120
<212> DNA
<213> homo sapiens

```

```

<400> 69
tgatgtgctc gttcccatag ccccgctgtg tgtgtgtgcg cgtgtgtgtg tgtgtgtgtg 60
tgtgtgtgtg tgtgtgtgtt tgggtggggtg ggaggggagg cagaagagga agagagggca 120

```

```

<210> 70
<211> 139
<212> DNA
<213> homo sapiens

```

```

<400> 70
tggtgatcag ctcagtgtcc ttggaaaaga gcagaaagtg gtatcacgaa catatcttct 60
cctttgcttc cttctcctca ctcttcatca tcatcatcat catcatcatc aaatatggat 120
ctgtgaggct acctctggg                                             139

```

```

<210> 71
<211> 340
<212> DNA
<213> homo sapiens

```

```

<400> 71
ggaggagaga ccagcattca cattcagtta ttgttgtttt aaatccatta cgcacatata 60
taggagaaaa tttcagcaac agtcaccctc tgaaccagtg tctcagttc tctccagagg 120
caactaaaaa gctcaattat tagtgtatcc ttttggaaat attttatgta tatgacagtg 180
tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgttcctttc caatattaaa ataattattaa 240
cattggtaat agtgggtacta aacaacttag ggtgtttttt ttttcattta atagtatatt 300
tttagtatct ttccaggaaa agatacatgg atgtgccaca                                             340

```

```

<210> 72
<211> 362
<212> DNA
<213> homo sapiens

```

```

<220>
<221> misc feature
<222> 49, 53, 57, 259, 322
<223> n = A,T,C or G

```

```

<400> 72
tcaataaatg attctgggga tgtgtctgtc tgtccatctg tctctctcna ganacanata 60
cacacacaca cacacacaca cacacacaca cacatcctgt tagttctggt tacctggaga 120
accttgacta acatacccat taaaaccaa atatgtcctt cagggtgtta atgtttgggt 180
gaagaaacac agaagtttaa caattgtatc aggtcgggca cggcctataa tcccagcatt 240
ttgggaggcc acaatgagng gatcacttga gccagggagt tctagaccag cctatgcaac 300
atagtgaagc aaaaaaatga anaaaattag ggggtgtggtg gagcgcacct gtagtcctag 360
ct                                             362

```

131/203

<210> 73
 <211> 187
 <212> DNA
 <213> homo sapiens

<400> 73
 gagttctatg gaacagcatt tattgaataa taacatttca ggaaaaaata taagctttac 60
 tgtatattaa aatacatata tacgtttata tattatatat tatattatat tatatatattat 120
 atatattata tatattataa tttttatata ttatatagat ataaatcaac tacaagatcc 180
 agttcaa 187

<210> 74
 <211> 219
 <212> DNA
 <213> homo sapiens

<400> 74
 ttgcctaaga tctaggtggt caaaagaatt tctccaatcc acttcagcct gttattatgt 60
 atgtattctg ttttaaataa gaaacaagag tcattttctc cagaataata gaaccatagt 120
 gacacttgaa gtaagtccag tggctctgat atgataataa taataataat aattattatt 180
 attattatta ttattttgag acgaggtctg tatctgttg 219

<210> 75
 <211> 302
 <212> DNA
 <213> homo sapiens

<400> 75
 atggagagac acggagttgc ttgaggggtac agtgcctgta gatactcaat aaatatttgt 60
 ttaattaaga aaattttctgt tatttgtgtg ctcatataata ccatttcagt ctgggtgagta 120
 ttgtttcttc ctagagttta cttttaatct taagtatttt ccaggtcctt tgttgacttc 180
 tgtttaaacc acagtacaca cacacacaca cacacacaca acttttgtgt actataatag 240
 cttccc'caaa attataattt agtcattgtg atgcagatct tcttccaagg cctctacttt 300
 gg 302

<210> 76
 <211> 368
 <212> DNA
 <213> homo sapiens

<400> 76
 aaacaaacaa acagaaacac caaaatggat tccagcatct tataagtgtt ttctcttatg 60
 atcgagagta agacaagcat ggctactccc ttctcttota ttaaataattg tactaggggt 120
 tctattgaga taaataggca aaaaacaaaa caaaacaaaa caaaaaggca tccagattta 180
 aaaaaaaaaa gaatctagga ataaagggtat tacatctcta cttgcagatg acatgatctt 240
 atgtatagga aatcctaagg atccactgaa aaactgttag aactaataac atcagtaagt 300
 ttgcaggatt ataagattaa taaaaaaact cgactgaatt tctgtgcact tgcaataaac 360
 aacccaaa 368

<210> 77
 <211> 247
 <212> DNA
 <213> homo sapiens

<400> 77
 tctgcccaca cacttttatgc tttaaaacaa aaggccatgt tgaacttgta gaaccaaattg 60
 attgctaatt acttggggcg atactagtga tatattatct tacatacaca cacacaaaac 120

132/203

```

acacacacac acacacacac acacacacac ggcttgagtc cagcatggcc tactgatttt 180
aaaataggaa atgacagtgt aaatgccagg ataaaggaca aagtgtctctg acctgttgcc 240
aaacctt                                         247

```

```

<210> 78
<211> 270
<212> DNA
<213> homo sapiens

```

```

<400> 78
gggttttagga cccacgtatc ttttgtttgt ttgttgttgt tgttgttggt ttggagttca 60
acatgtttat ggtgtgtagc catggttgaa agcttttatt ttataagata gacaaagcag 120
gaattattat tctcatttta caggagaaaa acagaagggc tatgtgggtt gttaaaaggc 180
cacacagaca gtaaagaaca cagcctttac atggtcagcc tcacattcta gtactcattt 240
tattacactg ctcttcttct ctggtgcctg                                         270

```

```

<210> 79
<211> 261
<212> DNA
<213> homo sapiens

```

```

<400> 79
ctggcctctt tgcccatttt ctaattggat tatatgtggg gttttgttgt tgttgttggt 60
gttggtgttg ttgttgtttt gctgttggtga cgttagagtt ccttgatatat tctagatatt 120
aatcccttgc caattaatag ttgcoagta ttttctccca tcctgtagggt tgttcactct 180
gatgattggt tcctttgctg tgcagaaggt atttaatttg atataatccc atttattttac 240
ttttgtttct gttgcctgtg a                                         261

```

```

<210> 80
<211> 304
<212> DNA
<213> homo sapiens

```

```

<400> 80
ccatccaggg tctaaactcca gcatttgtat aaacttggac aatacttttg ctacagggtt 60
gtcattgaaa gtattgcttc atttatatttc ttagtgggtc ctgtatgaag ccatataaga 120
gaaacttctt aatttagcac taggaaatgc ttctgttgac ttgagatgtg tgtgtgtgtg 180
tgtgtgtgtg tgtgtgtgtc tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtattcccc 240
taattgataa actataaaat aatctttctc ttttcacttt ggccatctgg aaatttgcca 300
ccaa                                         304

```

```

<210> 81
<211> 371
<212> DNA
<213> homo sapiens

```

```

<400> 81
tggcttccca atcctagaaa aggaagaaaag ctgcatgttg ttgttgttgt tgttgttggt 60
gttggtgttg ttgttgttgt tagatggagt tttctgtcgc ccaggctgga gtgcagtcac 120
atgatctcag ctcactgcag cctctgcctc cctggttcaa gcaattctcc agtctcagcc 180
tcccaagtag ctgggattac aggtgcgcac caccactcca ggctaatttt ttgtattttt 240
agtagagacg gggtttcacg atgttggccg ggctgggtctt gaactcctga cctcagggtga 300
cccacctgcc tcggcctccc aaagtgtctg gattacaggc gtgagccacc gcacctggct 360
gaaagctgca t                                         371

```

```

<210> 82
<211> 258

```


133/203

<212> DNA
 <213> homo sapiens

<400> 82
 gccttcgcag attgtacctc ttccctttcac ccttctcgct ggccctgtgct tctctctcca 60
 tcgtgggtctc ccacgccttg gtttctcctc catcccatc cccatctttc gtgagccct 120
 ccaactctct ccccggtgtt tgtacggtct cctgcgttca cttgatttcc tctcaccac 180
 ccccgcccca aacacacagg cacacacaca cacacacaca cgcgcacaca cacgggcctc 240
 tcgcactctc cttctcct 258

<210> 83
 <211> 226
 <212> DNA
 <213> homo sapiens

<400> 83
 tgactcttgg cctctgtgtg tctctgggtt tctttgtctc cctcctctcc acggtcctct 60
 tgtccctttg tcttcccttt cttgtttctt gaatctcttt gcctttatgt atctgtcttt 120
 ctctctctct ctctctctct ctctctctct ctctctcttc tttccctttc cctgactcc 180
 ctctctccct cttccaggcc cagctccag tagctcctaa ggcaaa 226

<210> 84
 <211> 215
 <212> DNA
 <213> homo sapiens

<400> 84
 catttgggat aaatgttgtc tttagttttc aactactttt tctttggctt attctctctc 60
 tctccctccc tccctctctc tctctctctc tctctctgtg tgtgtgtgtg tgtgtgtgtg 120
 tgtattcatg ttttcttaat ctatctgaat tgttgtgtcg gttttccatg cgaatttcca 180
 gttacctcca cagtattcgt ttcagaatgc ttct 215

<210> 85
 <211> 370
 <212> DNA
 <213> homo sapiens

<400> 85
 ttgcagtttc atgaaccaag tattactgcc tcaacaatta aaaacaacag acaaattatt 60
 taacaaacca tgaggcgagt ggtggctggt ggctgggtggc agggcgggg cagggtggcc 120
 tctgtgtctc atgctttctg gttggtctgt ggtctttgca ctgagagcta gggccttgca 180
 cattcattca ttcattcatt cattcattca ttctttgaat tcaacattac tatgcaccag 240
 gcgctgagaa ggcagcctta gacagatgga aatccttgc ttcgggaga ttccattcta 300
 atgggtcatt gattcagtggt cctcttcagt catttgttca tatgcattta ctctacctc 360
 tcatgtgcc 370

<210> 86
 <211> 339
 <212> DNA
 <213> homo sapiens

<400> 86
 aactgaacct gggctgtgtc agtctaagac ttatgcttgg aacctgtaag aagaacaagt 60
 gtgcgtgcat gcatgtgtgt gtgtgtgtgt gtgtgtgttt ggagggatag tgaagttttt 120
 tcctacagct acaaatagaa catgctttcc tatacaattg tactaatcaa tattatttcc 180
 ttacattatc tccagccatt tccctataat tagacattca gattatttca aggttggtat 240
 tcctataaac agtgatgtga tgaatttttt aaagttgggt cctcacatcc gtctgttctt 300

gtaaatgtat ccatcataga actggaccac aaaggttgg 339

<210> 87
 <211> 150
 <212> DNA
 <213> homo sapiens

<400> 87
 gggagtcttc tttcttcaag tgcttagggg agaaaataag tgagaaaaag agagatagag 60
 gaaggaagga aggaaggaag gaaggaagga aggaaggaag gaaggaagaa gaagaaaagg 120
 aaacgaaaag gaaaggaaaag gaagaaaagga 150

<210> 88
 <211> 331
 <212> DNA
 <213> homo sapiens

<400> 88
 tccatgttat tctctacctg ttggttcctt cctcattgaa aattggtgta tagatggtag 60
 atagatagat gatagataga taggtagata gatagataga tagatagata gatagataga 120
 tagatagata gatagatattt tatttttggg ctatctcctt tactaaacag taagctccat 180
 gaaaatatgg atcatcactg tcttattcac cattatatctc tcagcatatg gtattgtcct 240
 ggtatagaat agattctcaa taaatgcttg ctaaataaat gcattcatga gtgagtgaat 300
 gaatgaatat gcgagtggat gagtgtgtgg a 331

<210> 89
 <211> 370
 <212> DNA
 <213> homo sapiens

<400> 89
 tgcttgaggg caggatctat atgtaattcc tttctggaaa accagggatt gaaacaggat 60
 ctggcatgca atgggctgga tgggtgaatg gagaaataga tgaatgacag atggatggac 120
 aaacagatgg aaggaaggat ggatggatag atggatggat ggatggttgg atggatggat 180
 ggatggatgg atggatggat ggatggatgg atggatggac agatggattg gttggtagat 240
 gtgtggatag atggatgggt gaacaagcga gtagatggat gagtaaatgg ctaaactctg 300
 tgcttttctt ccagaatcct ggattctgaa gggaggcttt gcagcccttc ctcgtggatc 360
 acttgctctg 370

<210> 90
 <211> 251
 <212> DNA
 <213> homo sapiens

<400> 90
 ggctgaatta ctgggcatgt ttctgagaag aaagaacttc tattttaatt atatatctac 60
 agaaaccaa ttgcctgctt acagttttac atgtctgatg attggaagt tttgtttgtt 120
 tgtttgtttg tttgtttgtt tccacagact agcctctgac tccatatatt tcaaactttg 180
 ttctcttcc actaccaca tatttctgat gtgagacatt ctagaaaaat ttcattattgc 240
 aagacggctt c 251

<210> 91
 <211> 363
 <212> DNA
 <213> homo sapiens

<400> 91

135/203

```

ttggcaggat tcagttcctc atgggcacca gacggagagt ctcagcaaat cactagctgg 60
tgactgcagc caccgcagtt ctttatcacg tggttctctc catagggcag ttcacagtgt 120
ggtaacttgc ttcacagag caagccagga agaagaccca gagacagaca gagagagaga 180
gagagagaga gagagagagg aggcctctga aagagagaga gaagagagag aggcaaagag 240
agaatgagaa ctccagaagt cactgtcttt tatagcctaa tcttgaaagt gacattcatc 300
actttcacta cattttcttc cccagcagtg ctcagtggga ggggattata cacggccatg 360
gat 363

```

```

<210> 92
<211> 203
<212> DNA
<213> homo sapiens

```

```

<400> 92
gcacatttgc agagggttga ggtcccatca ttagccatgc ttcttggttc ctgcactatg 60
agtatacgta tgtgggctga tggcctcatt cactggatac acacacacac acacacacac 120
acacacacac acacacacac ctcaccaggg acttgggagt atctaaatgt ttgagaatca 180
tagagcaggg agacatccaa cac 203

```

```

<210> 93
<211> 326
<212> DNA
<213> homo sapiens

```

```

<400> 93
gggcacatac agctttcctt gcaggaaaaa aacctgctta actttgttta ttatatatta 60
tttgatctgt gcttcatata ttattcatat attatttgat caagttgctt catgtattat 120
ttgatcaagg aatcatgtgt gtctacagca cctattaaaa ttccctggca ctgaaattct 180
gtagaaaacc atttaggaaa agttgatcta actgtataat tattagtaaa acatatacac 240
acacacatac acacacacac acacacacac acacacacca caagcaaaca aaaaaaacc 300
accttaatgg tctcctaacc aaggca 326

```

```

<210> 94
<211> 266
<212> DNA
<213> homo sapiens

```

```

<400> 94
gcatgttcgc cacagagatt caattaattt aaataggtag aggacttggg gcagtgccta 60
ggacaacatt acactcaggg atggtgatga tgatgattat aatgatgatg atgatgttga 120
tgatgatgat gttgataatg atgatgatga tgatgatgat gatgatcatg atgataatgg 180
aaaagaagat agaggaggta gaagaggaga caatcatgat gttggaggta gactccaatc 240
ttcagaatca gaagctcagg gttgga 266

```

```

<210> 95
<211> 224
<212> DNA
<213> homo sapiens

```

```

<220>
<221> misc feature
<222> 18, 197
<223> n = A,T,C or G

```

```

<400> 95
agcttaatct attatttnag aggcagaaag ttaacttget tctcctgaaa agaagtgcaa 60
atatatccca aaagtgccat tctttcattc atccactcaa acagatacac acacacacac 120

```

136/203

```

atacacacac acacacacac acaccctttt cacccttgg tagtgtacag tctctgagtt 180
gtaaaaaata gtcattncct tctgcttgaa agactgtatt agct 224

```

```

<210> 96
<211> 328
<212> DNA
<213> homo sapiens

```

```

<400> 96
ccagcatgat cctatgaatc cttataaaag ggagatggga aaatttcaca cacacacaca 60
cacacacaca cacacacaca cacacacaca cagatagaga cagagagaag aggataaggc 120
aatgtaacca tggaggcaga gatgggagtg ctgtagccac aagctaagga atgctggcag 180
ccacagatgc tgggaagagtt gaagaatggg ttccccctga gggagcacag ccagatgcat 240
gctttgagag ttcagcccag tgctactgac tttagactta tggtttccag aactacaaaa 300
aattaatttc tgtcgtttca aaccatcc 328

```

```

<210> 97
<211> 257
<212> DNA
<213> homo sapiens

```

```

<400> 97
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tgagaaaatc tgaggccaat taacttctct cctctctct ctcttttct ccccttgccc 120
acctctctct ctctctctct ctctctctct ctctctctct ctctctcttt ttccccctc 180
ctcttcttgg agacatgatg aaatttcctg aaacaaaaac tcgcagcccg ttcaataaaa 240
tgctttcgcc tttggtg 257

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<210> 98
<211> 223
<212> DNA
<213> homo sapiens

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<400> 98
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taccaaaaag ggaaaaaaag ggaaaagaag aaacttattg ttgaacgaac acacacacac 120
acacacacac acaaagagcc tggcttaatt tagggataaa gcaaagaagt caatacccc 180
acatcaacta ttgaaaccta agctattgct ggagttgaca gcg 223

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<210> 99
<211> 364
<212> DNA
<213> homo sapiens

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<220>
<221> misc feature
<222> 7, 61, 86, 339
<223> n = A,T,C or G

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<400> 99
agctctncct agcattgttt tcctttgctt catttctct taaatgtgtt ggatgcactt 60
ngttcctgct aactaatcta tctttncagt ttcaaatcaa atgaaccag agaatttatt 120
tttacattat tatcttcaga tttagatttg ttttgctttt aatcctgtct tcatgaagg 180
gaaagccatg tgtaccagca tggttgataa accaccaaat cgtgaaactt tgcttgctcc 240
ccaaaccccc aaccacacac acatacacac acacacacac acatacacac acacacacac 300
acacacacac acacacacac acaacctggg aaattgggna gaaaactggc aaaccttaaa 360
ctag 364

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137/203

<210> 100
 <211> 132
 <212> DNA
 <213> homo sapiens

<400> 100
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 gaagaaagga aggaaggaag gaaggaaaaa taactagggc ctttcacttt tgccttcaat 120
 agcagagtgg cc 132

<210> 101
 <211> 372
 <212> DNA
 <213> homo sapiens

<400> 101
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 cacacgagtc atctgttcca aggctgttgc ctttactaag tgatgctatg ttggctccttg 180
 aggtggtgcc ttcttgaggg ttttcaagca tagctttggc catgcacagt tttcttctta 240
 tacacactct gaggagcccc gccgtcacgg taatgcacct gcctcacaag ctgggtgggca 300
 gcttaaatga aatacacatt ttgctccagg cccagcacta gctcatcaat gtgagctggg 360
 gttagcctca cc 372

<210> 102
 <211> 140
 <212> DNA
 <213> homo sapiens

<400> 102
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 aacacacccc ttcttggtct cagttccgca ccaccccaca cccccaacac cggaagtaga 120
 tttctcaata ggcaggggtg 140

<210> 103
 <211> 301
 <212> DNA
 <213> homo sapiens

<400> 103
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 tatgtgtagg gtagggtttc ccagtcacc tggagccctg agtgcttgc tccctaaact 180
 aggccagttt agctgactgg cttcctttgt gtatttggtcc attctgcac aaaagcatct 240
 gaattttcat tcaatctctc ttctgaattt tcacttttaa aaacctgacc agtcccttgt 300
 g 301

<210> 104
 <211> 101
 <212> DNA
 <213> homo sapiens

<400> 104
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 gaaggaagga aggaagggag ggagagaggg agggaaggag g 101

<210> 105

138/203

<211> 203
 <212> DNA
 <213> homo sapiens

<400> 105
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 ggaaaatggt tgctaagtct ttgtgactca aaaggaatca cacacacaca cacacacaca 120
 cacaacacaca cacacacagt ttttaatat atcagtcata tcagccccct gaggcagctg 180
 ctctgttcca gacaaacct gtt 203

<210> 106
 <211> 164
 <212> DNA
 <213> homo sapiens

<400> 106
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 cttttttttt ttttcacatt gagccatctt cttacagctg aggttttcat ataaaaaagc 120
 aagttgctgg tttctcttta aaagtagggc aatctggcag ttct 164

<210> 107
 <211> 138
 <212> DNA
 <213> homo sapiens

<400> 107
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 gctgtgtcca ctgttagtga cagaagtggg aaaatatatta agttgagttc acattagttg 120
 tcccagttta gcgtgagc 138

<210> 108
 <211> 664
 <212> DNA
 <213> homo sapiens

<400> 108
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 ataaaaaac atccctgtcc tcgacacaaa cacacaagta aatagagaag gtcagagata 120
 aatgctgtgc aggaaaacaa agcaaagtga gggatggaga gtgcggaagg ttggggcact 180
 tttgtttcag atgagtgtca gggaaagccc cttggaggag gcactgtaag ggcacagaat 240
 cgaatgaaag gagtatgtga aggtgcttaa attgtttctg tttggtttg tgtggtgtga 300
 tgtggtgtgg tgtggtgtgg tgtggtgtgg tgtggtgtgg tgtggtgtgg tgtggtgtgg 360
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 gggttgaggc tggccttagg agcctgttgg ccttcacaggc cagtccctgaa gcccagccca 480
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 ggggtggtgac ttcattctcc ctagtggtcc tttccccctc tgcaaaatgg gaatggggat 600
 ggctcagaac tcccagcggg agttaggagg aataatgtat aggaagtatg agcagagtgc 660
 ctgg 664

<210> 109
 <211> 120
 <212> DNA
 <213> homo sapiens

<400> 109
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139/203

<210> 110
 <211> 139
 <212> DNA
 <213> homo sapiens

<400> 110
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 ctgtgaggct acctctggg 139

<210> 111
 <211> 340
 <212> DNA
 <213> homo sapiens

<400> 111
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 caactaaaat gctcaattat tagtgtatcc ttttggaat attttatgta tatgacagtg 180
 tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgttcctttc caatattaaa ataattattaa 240
 catttgtaat agtggtacta aacaacttag ggtgtttttt ttttcattta atagtatat 300
 tttagtatct ttccaggaaa agatacatgg atgtgccaca 340

<210> 112
 <211> 362
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc feature
 <222> 49, 53, 57, 259, 322
 <223> n = A,T,C or G

<400> 112
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 accttgacta acatacccat taaaacccaa atatgtcctt caggggtgta atgtttgggt 180
 gaagaaacac agaagtttaa caattgtatc aggcctggga cggcctataa tcccagcatt 240
 ttggggaggcc acaatgagng gatcacttga gccagaggat tctagaccag cctatgcaac 300
 atagttagac aaaaaaatga anaaaattag ggggtgtggtg gagcgcacct gtagtcctag 360
 ct 362

<210> 113
 <211> 187
 <212> DNA
 <213> homo sapiens

<400> 113
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 tgtatattaa aatacatata tacgtttata tattatatat tatattatat tatatattat 120
 atatattata tatattataa tttttatata ttatatagat ataaatcaac tacaagatcc 180
 agttcaa 187

<210> 114
 <211> 2002
 <212> DNA

<213> homo sapiens

<400> 114

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aaagaacaat tccagccctg ac
2002

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<210> 115

<211> 2002

<212> DNA

<213> homo sapiens

<400> 115

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141/203

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aagaaattga attaaaataa ta 2002

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<210> 116
 <211> 2002
 <212> DNA
 <213> homo sapiens

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<400> 116
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cactcagtc atagtctgg tccctggctt ccccaagccc agcaccatga atgtacagtg 240
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gaggggaagaa gagcaagaca gagagttaga gagagacaaa gagagagagt tagagacaaa 1740

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142/203

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<210> 117
 <211> 2002
 <212> DNA
 <213> homo sapiens

<400> 117						
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<210> 118
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 <212> DNA
 <213> homo sapiens

<400> 118						
aaaagtagca	tcgagaatca	atttgcattc	cagaattggg	atccctgccc	taatctctct	60
actttatgcg	gccgtgtcct	gcttttcatg	actctagaaa	gcagaggaga	aagtggatgt	120
aagatataaa	ttagtctgtc	ttgtagggtc	ttctcttggt	cccattctgg	gaccagccaag	180
tgtccatacc	tgtggccctt	ggtatccaat	ttaaggcagt	tcttctcttt	ccatgatcac	240

143/203

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acagtaaagg agccccgta tacagtgtc caggactgag tccagttttt agtgtagcgt 300
gcaacaagag cagaaaaggc agagttggga aggacatgtc aacgggcagc aatgaggtgg 360
tataaagacc ctgggcattt ggaggcaaca gaggagaaa ggtctgtctc aaggaccaac 420
ttggtctctt cctatctctg cctgggcagc accagcagct gcacattggc cttcttacc 480
acttccatgg caaaaccaag gttttctcta cctcgcctag ccggcccttg cagacttgct 540
gacacagctg agtgcgaggt gcatctagac cccaacatga ggcgcccttc tctcaaaaaca 600
aatgagcctt cgaaactcca gcaaacagtg ctaatgaatt gccctcggct tcttaggcat 660
cattttctcg taattataat gggaagaaga catggagtcc cactgagaac gtggagctag 720
cctgccccta gagcaaggca aaatccctct ctgaggacca cactcaagca gaactgattt 780
ttctaagact tagagaagaa acaaaatctg atttaattct taggaaattg ctttttttaa 840
cccacctgtg taagcctgta tttaaatgct aatatatttg gcctgccggg atgccacatt 900
tattttcttc cttagcagca acaaaaatca tttatttatg agaattctag ctctacctg 960
ctctcctgag ttcctcatct tcatttccat ctaccagctg ga 1002

```

```

<210> 119
<211> 316
<212> DNA
<213> homo sapiens

```

```

<220>
<221> misc_feature
<222> 284
<223> n = A,T,C or G

```

```

<400> 119
gaggggtttt taagattgtg tgttctgaat ggctgtctc tgactggaac ccaactccgt 60
ccccagacc acttccatct ttttctgtga gggggacaca ctctttcaac ttttccaaa 120
tggtcatctac catggctttt ctgattaaaa gcaaacgaaa cacacccttc ctataatcaa 180
aaatttagaa aagcagcaaa aataaaaagg ggataaggaa gaaaacagaa attaaccacc 240
atcccagccg ctaaaatttt gatgagttct catgtgtttc cttnacagctg attgttgttt 300
ggcatacatt tattaa 316

```

```

<210> 120
<211> 413
<212> DNA
<213> homo sapiens

```

```

<220>
<221> misc_feature
<222> 177
<223> n = A,T,C or G

```

```

<400> 120
cacttccatc tttttctgtg agggggacac actctttcaa cttttccaaa atggcatcta 60
ccatggcttt tctgattaaa agcaaacgaa acacaccctt cctataatca aaaatttaga 120
aaagcagcaa aaataaaaag gggataagga agaaaacaga aattaaccac catcccncg 180
ctaaaatttt gatgagttct catgtgtttc cttagcagct gattgttgtt tggcatacat 240
ttattaatat tgggaattaaa aatatatatg gcactttata tcttagaaaa tagtaatact 300
gtaaatgtgt tctagaaatg ggagctgctg ttgctcttat tagagaattc aaacaaagaa 360
gggaggctcg ctggggacag cttctggggg aggatgggta ccgctttgag aca 413

```

```

<210> 121
<211> 414
<212> DNA
<213> homo sapiens

```

```

<400> 121

```

144/203

```

aggtatgagt cagttgagtg gggacaggta atagagagct agaactggct ggccttatgg 60
cctccaaggc attgggggagc cactgtacat tcttgagcag gcaatgactt cacaaaagga 120
tttctcaaag gttagtcctg caacagaaga cagcgtggat tggactggaa gagtgggagg 180
gcagggtggag aaggcattgg tctgcaagtg gggagcagcc ctggggggccc agccagtccc 240
ctgtgccctg acaagtggta tggcatggat ggatggctct acttctgggc cgccaggatg 300
gacagggtact ggttgctctt caccatggcg ataatgagga ggccaccggt cagcaggaag 360
gtggggccaga agagggagaa gaggagggcc tggggcccgt agaggcgctg gaat 414

```

<210> 122
 <211> 346
 <212> DNA
 <213> homo sapiens

```

<400> 122
ccccatccct ccagttcagt acctgctggt tctgggtccc agtgtcctcc gtgtggtaca 60
gcacagccca cctgccggca gctgacacgt tgaccacag gcatgggtac tggggcacct 120
tcttgccctt cagctctctc ctgggtccct atgttgggtc caatcagggt gcacttggat 180
tcttggttcc acacgctgag gagaccacac acatgcacac atacacatct cagaactggg 240
tgacacacag aacacccatt tgaacccatt atcccctggg agcctctaga gggatccagg 300
actgggctcc tcattctgtc ttcagcatcc agcaataaag gcacat 346

```

<210> 123
 <211> 484
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> 148
 <223> n = A,T,C or G

```

<400> 123
ttccctgcac ttgaacccta gaacctaaaga atgagcatcg tcttgaccct gctgccttga 60
atgaggggtca aggagagggg tgagtagaag gccagggttc cttacagatg ccagaccctt 120
aggagaggggt tgggggggtgg gcaggccngg agagctcagt accttttctg gttagagggg 180
agcacagtcg tgaccaggat gtagtaggtg atgacggcac acaccaccat ggttacaccc 240
agagcaaagg gctcgtgtct ctccccgctt ctggggccatc accagcttct tcaccatatt 300
cactggggggc agtgatcatt tctaggtcca cagaagcaaa cagaagttag atcagcccag 360
ttcacagggtg atccacagaa agagaggaca ggtgagaggg gaagggtact aactattaat 420
atcactcttg tttatatatt gagctttgca acttccagaa gtcttgcttt ttggacccca 480
tgta 484

```

<210> 124
 <211> 182
 <212> DNA
 <213> homo sapiens

```

<400> 124
agaggaaggg agtcctcctg cctgcctccc tccctgcccc gtggcagggt gctttcccca 60
tgtctccctc cagcccggtc ttcagagaaa tcaactccca agtgctttca ggcccgggtac 120
tcacagtctt cccggcgctc tgtgggtctt gagcagcaga cagtttcttt ctgcctggac 180
cc 182

```

<210> 125
 <211> 146
 <212> DNA
 <213> homo sapiens

145/203

<400> 125
 agccccgtct tcagagaaat cacttcccaa gtgctttcag gcccgggtact cacagtcttc 60
 ccgggcgtcc tgtgggtctt gaggcagcaga cagttttctt ctgcctggac ccccgcccc 120
 accccaaaag aggccacaga gcttca 146

<210> 126
 <211> 146
 <212> DNA
 <213> homo sapiens

<400> 126
 agccccgtct tcagagaaat cacttcccaa gtgctttcag gcccgggtact cacagtcttc 60
 ccgggcgtcc tgtgggtctt agcagcagac aggtttctt ctgcctggac ccccgcccc 120
 accccaaaag aggccacaga gcttca 146

<210> 127
 <211> 1002
 <212> DNA
 <213> homo sapiens

<400> 127
 cttatctcca cccttcaactt gacccaagaa tcaaagaacc tgaaactgag acttggaggc 60
 ttgaagtcac tgggtgcaacc ctaggggcca gaactagatt cgaagctggc ccttccagat 120
 ggcacagctt ggtctgtctc tgatgacctt ggggctgctc tgagacatta aaaatcacct 180
 cgatcatata gtaagctgcc acctgaggct ctggagggtca ccctgagttt ccccgcccc 240
 cagggagggtg ggtgcagcct ggccctccct gctgagcgag ctcaccacct tcctccctcc 300
 tgccctccagc aggcgcgaaa tgaaggcagc cactcaggcc tccttgacac actctcaggc 360
 ggtgagtgcc cttctccacc cctttcctaa ttgaatctta ttaacaggag actacagtgt 420
 ctgtttaatg ggcaccatag caccagaggg tctaagacca gcttcagacc ttgcaggcag 480
 attgacagag ggatgttaga ctctggaatt caatctcaga agagcaattt tccaaggatg 540
 atcctctgtc cactcagaag caggaaaagt cctcctgggg ctaatccaga aatgccaggc 600
 cccctcctg cttccctggg ggagagatac acagtgcac aggtgcoat ttatgagtat 660
 aaccgaaggg ctccttgctc gtgatactct gaataagtta ttaagggcta catattattt 720
 ggaaatcata aacaaacttt agcattcttc ccaagggaag gtgggaacaa acagggaagg 780
 ggggccgtgg ggtcttctgc tccccctaaa tgagccacaa ccaaaaggca ttgacaagcc 840
 ctgtcctcga ggggttctgg gtgaaaaccc aggtcctttg ctggctgcgg ggttgtgtgt 900
 gacagatggc tacaggtgga gggcaagaaa ataacaatgc tgcaacaata aatattgacg 960
 gtttgcatta gtacgggggtg tcagagatca caaatatct tc 1002

<210> 128
 <211> 2002
 <212> DNA
 <213> homo sapiens

<400> 128
 tacttttcag cctgaggtct cctcctcacc actaacaccc ttccctccaa tcaaactgat 60
 ccattgtacc tacaaaaagc ccgtcccacc tcttagcctt tgttcacact gggttctctg 120
 ctggatcacc atccctccac atttccaggt gtccctcaag actactcagc agcagctatc 180
 catacaagtt cctcaaccct ggctttcttg cctcaagta accagttcat cctccccagt 240
 catatagccc tctattttaca tttcttttct ggaagctatc atttttcagc tgccatttga 300
 gtgagtgctc tcgctaagac gatattttct ttgagggcag taacctttct tatatgtctc 360
 tgtatcccat gaacttagca aaaaacaagg gacagaacag gtgcaaagtc tacgtgggtta 420
 gtgaatttaa cagatcttcc taacgtgtaa acgtcggtgt ccagggtgaat ggaagaagtg 480
 agctgagata gaggggacag acagagtcag tgtccagtgc tgacctctga aatggaaaaa 540
 catggccagt ccttaggagg ctgcagaggc caagacccca gtgagggttg ggggttccac 600
 agcagaggag gagctgtgga ccacagcagg accccgatgc catcagcagg ggagggaagta 660
 atcagagagg tggaggaagg aagccaaggg aagtcagta aacaccaaatt attccctccc 720

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ggtccaatgc tgtgacctgc ataagccacc actccccag tctagactct acccatggaa 780
gaaggaagaa gatagaactc tggatttgaa tataattcta aaataaccaa atttatctga 840
aaatgactag gctgagtttt ctgcttcaac cagaaatgga gcttggagtc agaaattatg 900
tgaaattata gaagagaaaag tcaccatctt ccatctctga gtogtatgat catttttagac 960
ataaaattgt gcacttacga tgtaccaagt gcttaatata ctgtgatctc atttcaccag 1020
ggaaactgta taattcattg ctttaactga caaaattctg caactgaaga aggtgctgtt 1080
aataattgca ttgggacgca ggccctgagca ggccatgatt tgtggctgtc ctacatctga 1140
ccctcacagt atccatggga gaaggcagca tgtttatgcc ccctgacagc tggggaaacc 1200
aacacttaaa gtgattaagt cacaagtcca aaataaatga cagagctgca gttcaagccc 1260
aggtggtcat ttaccaaagg ccatgctctt ttcaacttgc atgggactgt gaccgctggc 1320
tctaccacgc ttcccagtgc gacccttccc cgccactgt ttctcttctc tggccaacgg 1380
aaacacaatg agaccacata tgtaacatta catTTTTTca tagccacatt gaaaagaaaa 1440
aggaaccagg taaaatccat tttaatatga tattttatTT aaoccaatac agttgagggt 1500
tgaacaacac aggtttgaac tgtgtgggtc cgottacaca tggcttttTgt tcagtctctg 1560
ccacccctga gacagcaggg ccagccctc ctcttccgcc tccctcctcag cccactctac 1620
atgaaaacaa agaggatgat gatctttttg atgatccact ttcaacttaat aaatagcaaa 1680
tatatgttct cttcttttatg atttctcgta ataacatttt cttttctcta gctcatttta 1740
ctgtaagaat acagcatatt cccagctact cagggaagctg aggcaggaga atcacttgaa 1800
cctgggaggc cgagtttgca gtgagccaaa atcgacccat tgcactccag cctgggcaac 1860
aagagcgaaa ctccaactca aaaaaaaaaa aaataaaaag aatacagcgt ataatgcatg 1920
taacatataa aatatgtgtt aatcaactgt ctatgttatg ggtaagtctt ccagtcaaca 1980
gcaggctatt aggagttaaag tt                                     2002

```

<210> 129
 <211> 1121
 <212> DNA
 <213> homo sapiens

```

<400> 129
cgctcagcag ccattaaaaag gatatoatcc agtcacttag tttctcaatt taactttaaa 60
ggaaagtTgc cttatttagag aagtggcctc tatttcaatg taatgggtctt tgtcacatct 120
tccaatgtgc tggcttagtg ctgaaggatg gggaaaggca gttttcacat attgcagcca 180
ccataccacc aaagaaaaca ggtgcacttc caggcatcat ttagcgggggt accacgattc 240
ctggttccag tttccttttt agaaaatctg aaagtaactt tggggcatat cttttaagga 300
gtactccaac acgactagtg gacagacct aaattaattg ccaatcagct ctgccttctg 360
gtattttacac ctttatgtaa taacctccac ttgaaggtag atgagatctg tgacttgctt 420
ctaaccagtg gaatatggcg gaggtgggtg gacgttactc ctgtgattac attacatcat 480
gtggtcctt tatgatggaa gattcatgct agagattctc cttgctgact tgacaaaagta 540
tgtaacctat atgaagactt ccacgtggca aggagctgtg ggaagcccag gtgctgagac 600
tggcatccag caaacaccga gcaagaaaca gacgtccttg gttcta'caca tacaggaaat 660
gaattctgcc aacatcctga gtaaggctgg aactagattc tccccaagtt gagcctgaca 720
agtaaaatac agaccagcca acaccttgat tgcagtcttg tgagacctgg ggaaaaggac 780
acagctgaac cgtgtccatt cttctgaccc acagaaactg tcacatcata aaggatatgtt 840
agttgttaca cagtttagaa aactattaca gctgctcaag aaggtttagct agctccagat 900
ttcaatccat tcacaggaaa gcaagcttta ttcctagaag aataattcat gctttgcaaa 960
aagaggaaaa cgtcctgcag ttttagaagg tcttttcttt ctcaacacac ccaaatttct 1020
ttaaaatcct caagaagtgc atttgttttc atggttgact cgaagaagtg agtataatta 1080
actcacaaaa ggtgggagga agggacaaat taaattttgg t                                     1121

```

<210> 130
 <211> 1002
 <212> DNA
 <213> homo sapiens

```

<400> 130
cactcaaagg gctggggacc cttgtccctc ccatgtgcat ccatctctcc tatctctgag 60
tccccagtga actgctgcct ccctagagaa acagtgctag aagtcagtgg caagagcage 120

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147/203

```

aggaggactt ggagctacat gcagagtgtg agctccggag tcagaccagc tgagttcaag 180
gccagctcca ccatctattc actgtgactt caggaagggt gcttaacctc tctgtgcctt 240
agctgcctca tctataaaac aggaacaat gagagtcttt ccttatgggg ctattgaaat 300
gattaagtga gatcaggcat gtgatggcac acagtaagaa ctccataaac agaggtcacc 360
actgctaata caattattct atcaoctcag gagactaaag caggggagga aacaccattg 420
actcctggac atttacccaa ggagattatg gatccatgtt ttgcacacac tttagaaaga 480
caaggaattc taaccacagc agtctgtctc cactgcccc gtcatttcag tctcaccctg 540
ccacctcaa cctcaccact gtggcccgga aatgcggttg ccagggcca ctctcaccct 600
acctcagccc tgctctgtct aagtctcact tccactcctt ccagctcca tccctttcta 660
ccagctcca cctgatttcc tccaccatga cctttaccct cctagtctga tctagacccc 720
tgatcttgcc gagtatctag gactttggtg cctttgacct tcagcagcag aggtagagag 780
ggatctcggt gaagtctggg atgttatagt gacttgttta tctaagtgcc ctgagactgt 840
gagttcccta atgcaggag catcaacctc tgcagagagc ccagagccc tgctcaggtg 900
tgatgaacag gaggcactca cttgatgccc tcacaaagtt gtgagtgaat gaatgaatga 960
gtgaatgaat gattgaatga agattagtga ttatgttaat ga 1002

```

<210> 131
 <211> 895
 <212> DNA
 <213> homo sapiens

```

<400> 131
ggtggggggg gagaggggag gggaggagag gggaggggag tgggggagaa ggggagaaaa 60
gcgcagctgg cttcctcact ctcccttctt tccctaccat ccttaccctg gccaggggca 120
ggaggaggat tggcagagta gaggcagggt cttctgtctt agctgggcct gttggtgact 180
ttctgttggc caacatgggc tgactggaat gttctccagc atggcacatg gtcattccaga 240
tgcaggctct tccctggggc actatagcag agagggtctt cttccagtct attgcagatg 300
gatgccctcg tgagctgagt ttgatgaac atcccatgtc ccagccacc ccattcagag 360
cctctttcta ctctggtcct ctggtcccag cagcagccct ctgggtactg aggggagggc 420
atctcaacca agcccttaa acctgctcac cttcttcaga gccacgtgg ccgcaggaaa 480
gtcacaaaacc cttgtgctcc cacagggcac acgtgtgcac acgtgtgcag ctaccttctc 540
tctagtgtgt acctgaggct gcctcctgga ctttccagtc tctgtgttcc cagacaacct 600
ccaagcccaa agaatacaag agctctgtca ccaagcatcg ggctgtggc tgcactacac 660
gtctgcagct caggaccctt ggctgcggcg taagctacca gcatccctt ctcatgggca 720
ccctcatctc cggctcccca tcgctgggct gtgacctgcg ggggcgcccc tctatggag 780
ggaaggagaa aaattcacag tgctatctac tctctgaat gcatccac caatttctt 840
ggaaatttct agctttcact gacatatctg ggatggggcg gtggtcaca aatca 895

```

<210> 132
 <211> 735
 <212> DNA
 <213> homo sapiens

```

<400> 132
ctggctgggg gacctgggt cagggtgcc acccctggc tctgtgcctt cacctgtgta 60
acgaatgggg cactcacagc cctctcaag tggctcctgg gatgaagtga gaagggtgaca 120
tatacaagtg agttatacac gttcctgttc tgtcactcac cagtgtcac tgggtgggtc 180
actgaactcc cctcagcgtt tcttcttcca tctgtaaacc accagtgaac acctttccca 240
gatagtgtcg accgaagca ggaaccagt cccctctgcc ctcaagtaag ctgccagcag 300
agggagcccc atagagggtc ttgggaaatg aagccaacag agtcaagagg gtcagatgat 360
gagggaactt aagtgcacc ttcattccat tctttctgca aatattcacc acacacctac 420
gtgacctcag gctctgtgtc aggtcctggg gatgtaatgg tgtccatgaa gaaacaaggt 480
cctgcctc atagagtggc ctgacatatg ccagaggcag tcagcagccg agtgcgggag 540
actcttgagc agagattgag tgtgttgata tctgtaggca tcagcctggc tttgctgagt 600
gagctatatc agagtggagg aagccagagg caaagtccag actccactga tcttggtattg 660
aggggagaag gggcttggcg gaagagcagc ctgagcacct gcatctcact ccaactggtg 720
ctgatttgtt cccat 735

```

<210> 133
 <211> 899
 <212> DNA
 <213> homo sapiens

<400> 133
 tccacagggt tgattataaa tgtgtgtatt gaattggaat ttctgttgaa attctgatcc 60
 cttctagaca aagaaggtaa aaattgaaac atgtcaatgg atatctaaat atcattactc 120
 actggcttta tttgcaaata gctttccatt gacaacagtt acattttgtt caaagcaaca 180
 aatgattggc gctgacaatc cacaggaaca tgggtgcagtc attaatgaat gtgctcatta 240
 ttctccctcg ccgggaggca tgcactcccg ttctccagcc tgttttaagc agacagacct 300
 acatctgcac ctgtcagctt ggaaccctag taggggaggg ggatgctgat gtgatggaga 360
 atgaagaatg ggccctgcag gctgacattt tgggagagta ggttctgaaa ttatcccaa 420
 aggacatgga atcctggaag cagggttcaa gatcctccca aaattgatct cccaggatgc 480
 ttggaatgat tgttctctgag ggttttgtaa aatgccaggg gaaaaccagg aagcttctct 540
 ccagttgtct tgctcctctc ctctccagtc tccatggagc tgactttgag aattaactcc 600
 tgagggacag agaccctggg atggagagcc agccctgctg gattccacaa ggtgctgctt 660
 aaagcacaac acctcttccc aatgacaggt tctgaaagaa ggcctttagt ctagatgcac 720
 agagggtttt gttttgtttt ttttttttta acctttcagc atctgtctaa aattgctctg 780
 ggctgggtac agtggctccc acctgtaatc ccaacacttt gagagctgag gcaggaggat 840
 cgcttgagcc caggcgttct agaccagcct gggcaatata gtgagatctc tatgtctag 899

<210> 134
 <211> 445
 <212> DNA
 <213> homo sapiens

<400> 134
 ggatctgtgc ctgaagctga gctgctgcaa tgaaactgac atttctgcct tgcagcctgg 60
 ccatgggctt agctggacta aaatgctgct gcagtgggtga gggcacgtga gagtccctaa 120
 tgtacatggc cttgtctcct gtctgacac atcttttagg gctgctgctt tctctagtgc 180
 tgaatctag ataattcctt tcccagccgt ttgtttcttc aatcttgaa aatatctgga 240
 tgaatgtaac actgtcacac acagaacaga attatgactt acgtcacatt ctatgtcgtg 300
 attttgtgga cttttaataa ttgcattaca tttgtgacca ttaatttcca ccatcgccct 360
 gctcctgaga atctgtaagg gacatttgac actcctctcc ccacccacct caacatttgt 420
 gctgacctga aggtcacatt aaaaa 445

<210> 135
 <211> 1002
 <212> DNA
 <213> homo sapiens

<400> 135
 gcaactttcc ctggcctgca ggaactcagg gactcagggg actaataaca acagtgtatg 60
 agcttcoggg cacactgctt cccagtggca gcccctgtac ttagggcttt gtatgtatta 120
 attcatttac tccaattccc acaataaacc tatagggtag ggttttatta ttgattacct 180
 ttttacagaa gaggagagta aggcaaagag agatagagta gttttccaa ggtcaaagag 240
 cacataaatg ataaaggatg gatttgaatg taggcagaat gaccctcaat acagactgtt 300
 cctagagtc acgtcctcag ccactagacc atacggccac tgggatgata gacagaccac 360
 tgcagccatg gataaggcaa aaacagggtt ggctgtgttg atctgtgtct ctcagagctc 420
 cattcttct caagggggca ccttgcaaaa aaaaacaaaa aaatggggca gggtagggaa 480
 ctgaaggcag gagctcttca ctagagcata gccacatcct ccaggcagac aagaggacgc 540
 aggaggcacc attctgtgag agtatcacag tctgacccaa agacacagct tcacactgtc 600
 tgatggcttg atggttaatg tcaactctgc ttttccctt ctcaggactt tgtaaccgct 660
 ctgtcgattt tattgagagg aactgtccac gagaaactaa ggtggacatt taatttgtat 720
 gacatcaaca aggacggata cataaacaag gaggttaagt agctggggcc aggggtgtga 780
 gagggtccca gtgaaggtaa ctaacccaac agaaaacagc cccaggcatg aggatagcac 840

149/203

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tgtctgaatg aggcaggetc tgctttgggg ctaacagagc tgggccctgg caaaataaag 900
aaggcctccc tcattgccct accctgccct gttcccaagc gccagaaaag gattaaacag 960
attcattctc actgggtcac ctagattcag tagatattac ac 1002

```

```

<210> 136
<211> 1002
<212> DNA
<213> homo sapiens

```

```

<400> 136
tagggccttg tatgtattaa ttcatttact ccaattccca caataaccct atagggtagg 60
gttttattat tgattacctt ttacagaag aggagagtaa ggcaaagaga gatagagtag 120
ttttcccaag gtcaaagagc acataaatga taaaggatgg atttgaatgt aggcagaatg 180
accctcaata cagactgttc ctacagtcca cgtcctcagc cactagacca tacggccact 240
gggatgatag acagaccact gcagccatgg ataaggcaaa aacagggctg gctgtgttga 300
tctgtgtctc tcagagctcc attcttcctc aagggggcac cttgcaaaaa aaaacaaaaa 360
aatggggcag ggtagggaac tgaaggcagg agctcttcac agagcatagc cacatcctcc 420
aggcagacaa gaggacgcag gaggcacat tctgtgagag tatcacagtc tgacccaaag 480
acacagcttc acactgtctg attggcttga tggttaatgt cactctgcct tttccccttc 540
tcaggacttt gtaaccgctc tgtcgatttt attgagagga actgtccacg agaaactaag 600
gtggacattt aatttgtatg acatcaacaa ggacggatac ataaacaaag aggtaagtga 660
gctggggcca ggggtgtgag agggotccag tgaaggtaac taaccaacaa gaaaacagcc 720
ccaggcatga ggatagcact gtctgaatga ggcaggctct gctttggggc taacagagct 780
ggtccttggc aaaataaaga aggcctccct cattgcccta cctgccctg tccaagcg 840
cccagaaagg attaaacaga ttcattctca ctgggtcacc tagattcagt agatattaca 900
cagtggataa aaatgacttg tttcagtgtg aagagttact cttccctagg gaacctgcat 960
ttgggaaggt taggagccac aagtcaaagc taaaagttga aa 1002

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<210> 137
<211> 1002
<212> DNA
<213> homo sapiens

```

```

<400> 137
ttgaaagaga gcgctttggg gggttttctt actgtatgtc tctattgcat gttctgtatt 60
ttacattttt ctattatttc ttctctgagg tatagtattg aatgtagaaa aatcctcaaa 120
tgttcggtat taagcaatac acttctaatt catggttcag agaagaaaat atctcgaata 180
aaaataaaat aaaaatatga cttatcaaaa tttgtaggat ctaaagcagt attccaggaa 240
tgcaagggtg gtttaacatt caataattgg tcagtgtaat taatcacatt aatagaataa 300
aaagagaaaa aatataatca tttcagtgga tgtaattggt cagagcttct taaaagaagc 360
aactcactat tttactagat gatttgtttc ttctgaattc ctctttaagg ctacagggtg 420
tgcttcttac tttgaactga tcactttota ggtccccacc cttacttctt gtttttcata 480
cccttgtaga gttttctcca ctataggaaa cccatgcttg acatttgctc accagagtta 540
cagagctctc agggaggaga ctacaggttc taacctctt gccctcctt tttcccagga 600
cgacaacatc atgaggtctc tccagctgtt tcaaaatgtc atgtaactgg tgacactcag 660
ccattcagct ctacagagac ttgtactaaa caaccacctt aacaccctga tctgcccttg 720
ttctgatttt acacaccaac tcttgggaca gaaacacctt ttacactttg gaagaattct 780
ctgctgaaga ctttctatgg aaccagcat catgtggctc agtctctgat tgccaactct 840
tctctttctt tcttcttgag agagacaaga tgaaatttga gtttgttttg gaagcatgct 900
catctctctc cactgctgcc ctatggaagg tccctctgtt taagcttaaa cagtagtgca 960
caaaatatgc tgcttacgtg cccccagccc actgcctcca ag 1002

```

```

<210> 138
<211> 583
<212> DNA
<213> homo sapiens

```

150/203

<400> 138

```

ttttttttcc ccaatcatgc tgtattctta gcgtaatttt aaaatactta aaacaagatc 60
atgagaaaaat aaatgccagc attctagcac caaaattcag aagggggggc tatgagaatg 120
aggggcgggg agaagccttc ctgagagttt ctaagaggca tggaggcagt ggggatagtg 180
attagctctg ggggaagaag aggctactgg ctggaaaagg gcatgaggta ggggttgtaa 240
tcacctactt gttttatctg agtgctggtc acacagatgt gttcacttta ggaaaatgta 300
ttgagattac acttgtgatt tctgcatttt tacatacgca cattaactca gtcatatgct 360
gataaatggt taacaatggg ttgctggag aaaaaagggt ccccggtatt tgtaatgtct 420
gccattttcc gtggtgtaaa tactcccttc acaactgatt tcaagcttcc catgcaactgt 480
aactgaagac agagttggga agatacgtgc agtagcaca cattaatatc tatttccacc 540
atatacacac aataggtgta aataacaccc agagcataga aaa 583

```

<210> 139

<211> 621

<212> DNA

<213> homo sapiens

<400> 139

```

ggttggcagc ttttaataac ttagaaatgg ctgggggtgg gggggaggaa gtactgaatc 60
atttactcat tcagcaaata accagggaat acctactcta cactgggcac tgatggagat 120
actagacttg ggcaaaagcc gcgtcatctg gttgtgttca agctgaacat tcccttgacc 180
cagtcactga tggagatata gacaggcaaa agccacgtca tctggctgtg ttcaagctga 240
acagtccctt gaccagggc ccatgacagg gcagagggca tattattatc cccattttac 300
aaaggaaaga gctgtcagac acagtgtcac acaggaagg agacgataat gtcaatatcc 360
ctcatcttag tataaagttg tctttaaaaa ctctccatta tttattaatt tattgactca 420
cttattcatg ttttctgcac agtgatactt atcctgcacg agactctcac accagtgtct 480
tgggtgtaag aacaccccaa ggattgtgtt cctttttctc gaagagtctg tgggtctaagg 540
ggattcaatg ggggtccactt tccaaaccaa gacagcaaag gaacactagg agagaagtat 600
tctgtgcaga gattcagtta t 621

```

<210> 140

<211> 538

<212> DNA

<213> homo sapiens

<400> 140

```

ggattaacag gcatgcacca ccgcacctgg ctaatttttg tatttttagt agagatgggtg 60
tttcaccatg ttggccagag atgggtcatga tctcttgacc ttgggttcta cccacctcag 120
cctcccaaag tgctgagatt acagggtgtga gccgctgcac ccgggcaact ggtttccttt 180
tactgccact ttcactaacc gtggtatttc tccatgggca gcattcttgg catttgggtg 240
tgtaggactg tccctcacat agtgacctct tactcatgaa ttgccagtgt cacattcaga 300
ttcttatggc aaccagaagc tcccctgctc ccagcatttc tggactcagc ctgggctggg 360
gaggttagct cagaccaa atctcctttc tgccagttgc tctgctaggc ccaggtcatg 420
ctgagcagag caagatgtag ctgaaaacca aataagtcac gtgttccagc ttgctggggg 480
tttgtgaaga aagcagccac cctccagtc atatagtttg caggttggga tttgcatt 538

```

<210> 141

<211> 656

<212> DNA

<213> homo sapiens

<400> 141

```

tggctattgt cttaagctac tattaccttc ttgcttgtca agttgcgcat ttacttttca 60
aggcttgcta cgtgcctgga atttctagat tttcctttat ttccatgctt ggggagagga 120
gtgcctggca ggctcctaag aggggtctgt gctccatctc gccccctatc ttgaactatc 180
ggttgggtgc tctagaatct gtatgggggtg gaagtgttca ttcattttct gtacaaaagc 240
aatcaatgct tattgtggaa aacccaaata agagagttgc tctaaacaac accctcccca 300

```

151/203

```

gtcccaatac cttgtccaga agaaaccact gtttggtag tatattagtc taatgtctgc 360
agaccagatc ggatgaccaa gttttccata aatggatggc catccacttc cttcaaggg 420
cgagggtagt ttgttctgat ccatctccct gtttcacagc tcaggaggagg aggaagaccc 480
aggaaggaga gctgccacag ttactagtgg ccagctggg atttaaagtc cgcoctgact 540
gaagcttggc tccacatgcc agtctgcaag gccctgagtg ccctcagcag taattccaag 600
caaagcaggg aagcagcggg ccaggtgctg aactgaactg ctgctcaggg ctctcg 656

```

```

<210> 142
<211> 579
<212> DNA
<213> homo sapiens

```

```

<400> 142
ctgcatatgt tccccaggt atttgcccc gaagcacagt catctcactg cttgcatag 60
tggaatgcta atcagcagaa gacccttcta tgggaggcag cttggaaacc tggaggaagc 120
cctggctgag gaggctagt gtcaggagc ctatcctggc caggtcactt tccccactg 180
gggcctcggt ttcttctttg taaagggaga aacttacatt aggcatattc tcaggttcca 240
tttggttctc aaattctaatt atttttatgg ttgatgctct caccagagct gctgctatga 300
tctcagagac gtgaggctca gatctaatta gaagcaaccg gaagagagca gttgggattt 360
ttcaactcag gaatcagctt ccctgctggg ttcaaattca ggctctgcca cttacagctg 420
tatgactaag ccttggtttt ctcaactata aaacagagga tagtagtagt taccatctta 480
aaatagctgt tgtgttgtgt ggatttcaag gatcatgcaa gtcaagcatt tagcacagtc 540
tctgctacat aagtggtcag caaatttgag gtactattc 579

```

```

<210> 143
<211> 985
<212> DNA
<213> homo sapiens

```

```

<400> 143
agacccttct atgggaggca gcttggaac ctggaggaag ccctggctga ggaggctagt 60
ggtcagggag cctatcctgg ccaggtcact tttcccaact ggggcctcgg tttcttcttt 120
gtaaagggag aaacttacat taggcatttc ctcagggttc atttggttct caaattctaa 180
tatttttatg gttgatgctc tcaccagagc tgctgctatg atctcagaga cgtgaggctc 240
agatctaatt agaagcaacc ggaagagagc agttgggatt tttcaactca ggaatcagtc 300
tcctgctggg gttcaaattc aggcctctgcc acttactagc tgtatgacta agccttggtt 360
tcctcaacta taaaacagag atagtagtag ttaccatctt aaaatagctg ttgtgttgtg 420
tggaatttcaa ggatcatgca agtcaagcat ttagcacagt ctctgctaca taagtggcca 480
gcaaatttgt aggtactatt caatttatgg ctctattgtt tggggcttcc aaatgtccag 540
agtaaggcca ttttcgaagt aggcagtaca tctgagagcc ttaacagctc atttctggaa 600
accttatcca gccctatcca gataactagg accaaaaacc ccagcacaca gatgctcgtc 660
ccttgcttca accctcactg acctctactc tgtggcttgt cctgaaaaca tcaaagcctg 720
ctcaattaaa atcctgaatg ccttgataat acaatttaga aacatacata gtttttaaat 780
agggcaaaaa ctctgcatga ttagtgctgc aagaagatat ccagcccaac ctgggtgttc 840
agggagcgct ctctaaaggc aacagaaatc taaagtaatt taagagccat gccactgaat 900
aaaaatatc aggttcattt cctgtccttc tctctgtttg ggatctttgt gtgtctttaa 960
ttaaagtag gagagccctg ctttt 985

```

```

<210> 144
<211> 597
<212> DNA
<213> homo sapiens

```

```

<400> 144
actacttcta aagcctctta gaccctggta atcttctctc taacaccatc gggtgactgc 60
aaagcactgc aggccagact tcagttctgc tgtgtaattt gcaagctggg tgaccttctc 120
tatctataga atgggctctc tctgcatggc tggcatgagg aataaaciaa atgggttgtg 180

```

152/203

ccagtgcctg	gggcatagca	cagotcaaaa	aacttagttc	atcctcctga	gggatcaaga	240
agatacttgg	aaacaaatgt	ccaagggcgt	aatcttgaag	gggcttgtgc	caggcatata	300
tggagagaag	ggttttgtgg	gatgtcagac	ttaatagtgc	cctttactcc	ccacccccgt	360
ctctctgttc	atagacagga	aatctgtggc	ctattctggg	acctcaaagt	gccacagggg	420
taaagatacc	aagtcagaaa	tctaaggttc	taaatggact	ttagaccatt	tttcatttgg	480
gaaggaagaa	ttctttaagg	ggttgtgctg	gcgctgtctc	tgtatgcatg	tgcagaatgt	540
gcttccagat	ggggtaatgg	tctgagtttg	aggacagaag	tccactccac	tgcattc	597

<210> 145
 <211> 988
 <212> DNA
 <213> homo sapiens

<400> 145						
gggtgtggcc	tttggacagc	accttagcag	gaatgtggtg	gagagcagcc	ccattcactc	60
cagaggagag	cctcaaactc	ttcaggcaga	tctagcctag	gtagaatctt	ggcctggccc	120
ctccgggatg	acaggtgcc	ttgcccaaga	atggggaaaa	ggctgaagtg	ctccagccaa	180
agaccccaat	ttatcttcag	gacaattttc	actggaaaacc	ttgcctcacc	actgccact	240
ttttcagaag	taattagaat	gctaattctat	aagaaagatg	actattaaaa	ataaattaat	300
aatagataat	acattttggc	ttacaatttt	gaataatata	gccatcccat	cttaaagtaa	360
aaattcatat	atttttaata	agcctgagac	atgtttttcca	atgaaccaca	gatggttcat	420
ttttattatc	ctataaagag	acattatggg	caagtgtttt	ttaaaatggg	aaaacagAAC	480
cttagagcag	ctctcttttg	agagatctct	aagcactttc	taagcatcag	gaccccttcc	540
tgtcatcaca	gagactgaaa	tgaggagatg	gtctctgtca	ccccctcact	caccagttag	600
ccccagacct	tcatccctga	tcagatggaa	gcagtgtggc	atgattacag	ttcatatttc	660
aactctgcc	ctcaatgact	aatagccaag	cactaataat	gcagaaaatg	taaattttaa	720
aaataatctt	cctgagattg	gttatgaaat	gcactcaaca	cagcaccatc	cacagagagg	780
ttctttttta	ttgctctttt	ctttcctctc	gacaccaga	atcacaaagc	atgcctgaaa	840
gcgtcacaca	tatatgtctg	tgaccataac	atggcattgc	acatgcaaag	gaaataaata	900
ggtgttaccc	atgtgacaaa	ggtccatgag	ctctgtccgc	aaaaagctgt	tgagttttaa	960
gaacaaataa	ttctgaaaaa	tcttccag				988

<210> 146
 <211> 835
 <212> DNA
 <213> homo sapiens

<400> 146						
ctgccattct	gatcactgca	agacccccac	ccccaatact	cccaattgta	ccacccccacc	60
ccactcacca	gtgtctcaga	aatgcctcct	ccagaaggaa	ggcatcctgt	ctaaccact	120
gcttctagcc	aagctgtctt	tcttcagaag	gtagaaaaag	tattgttagt	cattgtttta	180
tctttattga	gtatataccg	ccacaccaat	tgcactgcc	ttcattatct	cattttaaatc	240
tgacaagagc	cttgtaaagt	agggattatt	cccaccattt	cccagatgtt	gaaactgaaa	300
ttgataaaca	cgacatgttg	ccatggctac	atgaagatct	ccaagccgga	ggatctccac	360
cctcacctgc	ctagcttccc	agacctctct	gcagaaaagg	gactgacccc	caagacagcc	420
ctggcctctg	ggctccaccc	cttccacatc	catcccaggg	ccgctgagga	ctgaagagtt	480
ctccacgttt	gcccttttaa	gtgactttaa	aataatcttt	atgaatttct	tcatatacaa	540
aatctgtact	tactcattgc	agcaaattta	gaaaatacac	ataagcaaaa	aagaacgtaa	600
cagccatcca	taaccctaac	tctcagagat	caccactatt	aaaatgttta	ttatctaaga	660
gagagatgat	atagacaaag	atgagacaga	ttgacacaga	caagatgggt	acatgataga	720
tattttctgt	gttataaccc	ttgctttttc	ttgcactttc	tagaattttt	ctgagaacta	780
atctgaaatc	tgcacagggg	ccccacgttt	ggatcctcta	tccattgccc	ttcca	835

<210> 147
 <211> 904
 <212> DNA
 <213> homo sapiens

153/203

<400> 147

```

agctgagccc cagggctccc ccatgagtgg ggaggaaact catgagtgcc ttctatatgc 60
cagcgctcta tctgcagggg ttctttttag agcagcagac tgagagatga tgttactgtc 120
ccctttttcc tgttggtggc aactgagact cagaggatgg aagtgacttg ctcagggtcca 180
ccacctcttc agctgtggag ctgcgacagg agcctttggt tgacttcaaa gctcaccatc 240
actcctctct cactgatgct caagtgggct atcacctcgc ctttcctgag ccttccttcg 300
ctatcctaaa acagcgccct ccgaaatcac cactaaagaa cttattcatg taaccaaaaca 360
ccagcgggtc ccctaaaaac ctatggaaat aaaaattaaa aataaaaaaca gtgcctccca 420
tgacctatgt ctctccagtc ccataactct gctctatttc cattcacagc tccatcccca 480
cctttatgtc ttttggtcac tgctttatcc ccagtgccta gaagagtgtc tggcacctag 540
tagacactca gtaagtattt gtcgaatgag ttaataaggt tgtgaaaaga acgtagatt 600
actggaagga ttcatctgag tttaattctg ctatgctggg aatccagtgt gcggccttgg 660
atgaaggcca gttccctccc tgggcccag tagccacatc tgtacattta gagggcagga 720
gaaaagccac acgctctgtg acttatacaa cttgttgccc agagtggagg ctgctttgat 780
gctcagaaaa aagaaacaaa catggaaatg ctaaattggg ggcagagagc ttgagggagg 840
aaggagatgg ggagggtact cttgaaactg tttggtgtct tccctcctgc cccctcagta 900
caa

```

<210> 148

<211> 862

<212> DNA

<213> homo sapiens

<400> 148

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gcctgacaga tttttactga aggggtgcaca ttggaataaa aaatgtgtta cctatctggt 60
tgagtcttca gcttcagaaa ggtaatagag caaaggcaga taaatccaaa cagggactga 120
gctgttttca tgcaggctgc cttggtagct ctccaaagcc ttcaaaaatg atgagatttt 180
tttttaaate ctttttatcc aggttgttct caagggattc caccctgca taggagagct 240
caccattcct gggatcttca gcttctatgc ctttgcatat gctcttccct tgttccctca 300
ttcttcaaca ctcaactgaa ttatcacctc ccttgaagcc ttctctgaca tcccttctag 360
tcccatgcca cccaggaggc actaagagct tccctccctc agctcccagt tcttaaakat 420
gtcaacactg ttttgaaatg atttgccaat gaaaaattct agaccagcaa ccaacaakat 480
ccttcccaaa ggtgtgttat atatggtaca tgctctatgt gctaaacacc aaattcattg 540
ataacagcta agaaccagga aacaaacctat cgttattat ggcatctctt gaaaaatcta 600
aagatctgga ctactgggc tttaatgact gcatgataac aactggttga gtaacaactg 660
tttccctttc atggagcagt tactctccag ttctcagttc ctaccactct ctatagttgt 720
acactcatca tctgtcctca tctgaattac ctgccaatga ctactggcat ttgagtttct 780
aatccatggg ctatgtgtat gcctcctcac cagtgtgaga actcatgtaa acagggtatta 840
tgtcttttca tctctctcct aa

```

<210> 149

<211> 1105

<212> DNA

<213> homo sapiens

<400> 149

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ataatggtca cgttggagca attgccattt caaatcatta ggaacactca ggtcactttg 60
gcatggagct attttgtaaa agacgtagaa gccatttata aactttggtt tgctttttta 120
aaatttattt cttcttgagg cttatccgtg taaaattacc aaaatgattg tggtagact 180
ctacattgtc acagtattta aatgtgcaca atattccact tagaaataat gtcagtacta 240
aaagtagtag agggctttga tagcaatatt aatacatcgt taagcccttc tcattaaaca 300
gtgtaatagt cttgttgaag tttgttaggc attttaacca ctactaatta aaaatagacc 360
tactgactag tctgttttac tgtgctttat tgtgtcttgg atgttcattc agatactttt 420
gctgttgaga aatcaaactc tctcttatgg ttttaattac aaaatacata ttagaggggat 480
acagttctta gggctgtgat ttttaatttg tgtaaccttt ttttattttg gaaaggaaat 540
ttcagatttt ttctagtaat ttttcatttg tgagtgttgt tttctagata cagaaaatgt 600
acctagatag atgatcacat tttaggatat tttgcttacg tgttatttta tatttatata 660

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154/203

```

ctataatacc attgtatagt tcagaacaag aaaatatott gataaatcat ctgctactgt 720
gaggcagtta aaaaaatttg aggcctcactg aaaatgtgtg acttgcccac tgtctcatat 780
tgctagtatt ggagagaaaa ctagaatcta ggcctttatt ttctgatgt aatgatttta 840
gctaattatt atttattttc ttaaatcatt gcattaattc gatTTTTc acagtagagcc 900
tatatcagtg tttgcaataa ttaattttta agtatatttc tataattgta aataaaatcc 960
tgacatttgt tacaggatgg ggttttcttt catcatattt ttataataaa aattaagcag 1020
ttataaaaat aaatagccta gtttttcaat tgggtataagc tggcctttatt ttatactgct 1080
aataaaggca cattatgttc aagca                                     1105

```

```

<210> 150
<211> 595
<212> DNA
<213> homo sapiens

```

```

<220>
<221> misc_feature
<222> 550
<223> n = A,T,C or G

```

```

<400> 150
cttatatatt cattaattaa taatttatat tcacacaatg attgtagaaa tgtgagtgtt 60
tcttagatta ccaaacatct gtgaaatcgt gaaggagtat tgaaatttag taatttgggt 120
tggatctttg aagatattct gtagaattgt ttccaaaag ttacaactgg tttacaattt 180
ttttcttaat tgccattaac aagttttgac cctgagatga gaaattattc acaaatttca 240
attaaatact ggaatgcttc atattttctg tacttttagga cagggatccc caacccccag 300
gccacagggtt ggtactggtt tgtgacctgt taggacctgg actacatggc aggaggtgag 360
cgggtgcgtga gaaagcatta ctgcctgagc tcacacctct gtcagcgaca gcattagatt 420
ctcataggag gacggacctt attgggaaca cacacaagag atctagggtg cggactcctc 480
atgagactct aatgcctatg atctgaggtg ggacagtttt atcctgaagc tccccacta 540
tccgtccagn gaaaaatttg gtcccttgtg ccaaaaacac tggggacctc tgctt 595

```

```

<210> 151
<211> 2002
<212> DNA
<213> homo sapiens

```

```

<400> 151
agggtggtg gtcctccgcc cccacgtgc agccctcgcc cccgccccgc cctccgtag 60
ttgcccgcgc gccgccccct ccgcgcgcgc ctccgcgcgt ccgactctcg ccccgagcgc 120
tggcagcagg cagcaggcag caggcgggcg cgtgtgtggt ccgcgcgcgc cggtcggggc 180
tctgttcatt catgattggg actcgccct cagagaccca gccgagcgc agggagggga 240
gccgagtgtg cggcaggagg ggcgggcgga cggcggtcc cgcaccgcac gcggcgctgg 300
ctcggcagcc tcggccgggc ggccgctctg gcccctgtc cagtgccagg caggcttcag 360
ggcaccgtcc tcggccctgg gcgaggaac ccgcgggccc ggtcctcgcg cggggaagcg 420
gttccgaagg ctgcggggga gcggctagcc ctgagtcctt gcatgtgcgg ggctgaagaa 480
ggaagccaga agcctcctag cctcgccctc acgcttgtct aataccaagc tgcaggcgag 540
ctgccgggcg cttttctctc ctccaattca gtagtagaaa accacgggga tttctttcca 600
gggtaggggg ggggcccggc ccgggggtccc aactcgact caagtcttcg ctgccatggg 660
ggccgtcatg ggcaccttct catctctgca aaccaaacaa aggcgacct cgaaaggtaa 720
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<210> 152
<211> 700
<212> DNA
<213> homo sapiens

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tctctctagg cggctatgcc aggtgcagac ctgcagatcc ctccatcagg aagagtgtc 420
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tgcgagctga gcttacatca aggattaaaa agcataatat cgtggagtct cttctgcctg 600
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<210> 153
<211> 2002
<212> DNA
<213> homo sapiens

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<210> 154
 <211> 2002
 <212> DNA
 <213> homo sapiens

<400> 154						
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2002

<210> 155

<211> 2002

<212> DNA

<213> homo sapiens

<400> 155

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2002

<210> 156

<211> 2002

<212> DNA

<213> homo sapiens

<400> 156

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158/203

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2002

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<210> 157
 <211> 925
 <212> DNA
 <213> homo sapiens

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<400> 157
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<210> 158
 <211> 1383
 <212> DNA
 <213> homo sapiens

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<400> 158
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gcg

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<210> 159
<211> 910
<212> DNA
<213> homo sapiens

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<400> 159
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tgccagccaa cccaccacc cccgcacaca cataccacct ctggctggaa ctgacgacca 540
tgggttttag aaatgagata aatctgggag atgaatgtat tcatgagccc ataaagggt 600
catgaatcac tggccccaat tactgccttc aatcctgaca ggatgaattc cctcaagcag 660
attctccttg tcagacaaca cgggaggcag tgtcatggct gatctagagc cacagataac 720
atcattattc cataccaggc tggtttcggt ttcccaagcc acctccactt gatttacagc 780
tcacttctga tgctggagag agagataaat atatatatat atatatatat 840
atatatatat atatgaaaga aagaagaaa agagagagag agaaagacac aaaggggaag 900
ctttcatgcc

```

<210> 160
<211> 898
<212> DNA
<213> homo sapiens

```

<400> 160
atcccaatag gacacatggt gtattaaaaa gccatgagag acggaagaag gaaattgaat 60
gaaatttgag ggcaggtagg agcagagaca ataaataatt cagcagtga ggaagcagaa 120
aaaagattgc actcatttcg cccttcaaca attatactaa acacctgctc tgggccacag 180
aagggccaga tccattcct gtgctcagga agcccacagg ccggcaggga gaggctggtt 240

```

160/203

```

ggaatgtgtg ctttgcactg taacggaggc atcgagcatg gtaagggact ggcggtggct 300
gctgcctgcg gacgtcgagc aggggccttt gaagaggcag gacctgtctg gactcttacc 360
tgggccttgg ccctggcaat ggggaatgga gcaggcagca ggggacagat gctgccagaa 420
gaccgagatg gtgcgggagg actgggctga gtctgggtca aatgacaccg ccccaggctc 480
tctgcccctct ggggtgaggc aggaggctgc ctctgtgtgt gattcagaga cctagaatc 540
ccagtggcca tcacccca caacatgcc aacctttctgt gataactttc tcttgtggaa 600
ctgtgaaagt gtaagaccag ctctgtata gtgcatggcc atcctttgct ttggggacag 660
taagtcagtc aacacatact tataaatggg gtccctgggc gtggcactga tctggctctc 720
ccaccttgcc tcacactgcc cttcccactc accacttccc tcctctgcat cttagccgca 780
agggactttc agaccaagca gacctggaat caaatccac cgctgggcct caatgccagt 840
ggagacagga acagctgata cctggagccc tcaggaggaa gaggacggga tgctggc 898

```

```

<210> 161
<211> 2002
<212> DNA
<213> homo sapiens

```

```

<400> 161
cccactcacc acttccctcc tctgcatctt agccgcaagg gactttcaga ccaagcagac 60
ctggaatcaa atcccaccgc tgggcctcaa tgccagtgga gacaggaaca gctgatccct 120
ggagccctca ggaggaagag gacgggatgc ctggcttggc tgctggtctg gggcagggtg 180
ccagttacag cagttggaaa aatcctcagt gttggaagga aatttggaa tgagcatcta 240
cctgcctgcc gtgcagtttg tgacttttaa gatggttgac agaacattcc caaaggacca 300
cagcgggtgac cactgttctc gtttcccttt ggtggctcac tcaactcagt ctggacacag 360
tggtcctgac aagacagtgc tgtggcttcc atgaacctag gacaggata gactcaagga 420
ctaagaacaa accaggaaga agcatcacca caggctcctt gccagtcaac tcatctcacc 480
ctcctggccc tggcggatgg gtctccatat ttacaggggc cagatgaaaa aaccagagga 540
gccaggaaaa ggagcttccc cttcccaagg gcgcaagggt aggtgccagt catgagatgc 600
aagccctgag ctttctgatt ccactgcatg tggteccaag gtteggcgcc gcatcacaca 660
gttagtgagc aactctcct cccctggccc cgagttagcc agctggatgg cagatcagaa 720
agagaagtcc cgggtgcccc caacatggct agctccttcc aggaccaggg gctaggcccc 780
agctaaggct ggtgcacaca gcagggcagg gggcgaagga gtgggatccc acccagggat 840
cccacccacc ccaaacctgc ttccggacat ctttccaatg cataatgtgc agatgaggcc 900
ctttgataag gaccaaatcc ctttccgttg cttggcaacc tggctcacia gtcatagcag 960
ggaagtaatt tacaggaatt caaagtgtcg ctggagggtc gtgctgagct gaattgctgc 1020
aaagaggaac ctcaatggtc caaatcacac ctctggcggg gaggaggggc tgaaggaaaa 1080
gcttccactt ccgtcacttg agagtacaga gccctgagct cagactcagc gatcgttttc 1140
cattaacgga tttactggtt ccatgttgag ctctgtgtgt gtggcaggcc ctgtgctggg 1200
agccagggac acagtgacaa acgagacaga tgccaacccc ggatgcacag agctcaaaga 1260
gacagaggag taaacagggc tacacatgtg acaagatagg ctgtgcacag gggctctgagc 1320
aggacccttg gggcaggagg aggcagtgga gggatgggag ggtagggacg cagtgggtgac 1380
cagctagcca gatagagaac agagggtgtc ccagcacagg gccacacaag caaaggcaga 1440
gggtggggaga gaagagcctg ccacactctc agatcaccat gtggttgggc cagggcccca 1500
gctgaggctg aggacacatg gagccagat cggcgagggc cttgaatgcc aagtcagaaa 1560
gcatctgaaa tttagtctac agatgatgtg ggttattgac agccaggaca gggaatgaca 1620
tttgtgtttc aggaaaacca ctgtcttcac tgtaggggg tagattcagg gagaaacagg 1680
aggtggaggg gaagaaactg tgagtaaagg agtctctggg gtacagggtga agtttctgtg 1740
aaactggaga agaaaactgt tgaggcaaga gttgacaaaa cttgaagtag gatggagagg 1800
aagggacaa gttccctggc atggtgacgg ccgggtggtg ggaaccaggg aagaggaggg 1860
gctttgcagg ttctctgact gcccaacagg tggcgccatt taccaagatg ggaaggggcg 1920
gggagaaggg agggttccat tctagggaaa tctcagggtc tcgctattag gattctttcg 1980
gttgccagtg actgaaaccc ag
2002

```

```

<210> 162
<211> 1002
<212> DNA
<213> homo sapiens

```

<400> 162

```

actgtctaga tctgggggacc ctcccaagct ctcagagctt tggaaggaag gtccctgcag 60
ggaaactgtg tgtgttttctt caacagtgtg tcctcagtcg ctagcacatg gtaagtgttc 120
cataaacagc tgttgaagag acggatggat aactgaatga atggatgctt ccatgggcaa 180
tgacacacta atctgaaaag ccctgtatca atgaaagaat cacttaatat ttttaactttt 240
ccctcatcct tcagaacaca gatggcatgc catcttccct tcaaattctt tcccagtgcc 300
ccacacagaa gaggcacact tggacactgg tgtctgatgg acccaagttc acagcctgtc 360
tctgggtcatc aggtatcatg accttgggca agaagcttaa ctctctgagc ctcaagtttc 420
ccttctgtcc cccagggaaa atgagtcctg cccctcctaa gggaggtatg agatgtaaga 480
ccccgaagga cacaagggtt ctgccaggag ccttcaggta ggaggcaggt aaggaggtct 540
gctagattgg aatgagtttc tggaaggccc caaggagctc aaaatcagac ctgggggtgaa 600
ggtgtcttga ccaaaatgag acccatcaaa gaagcctgga tgaaggtgcc cacagcatcc 660
atcagtgcca aaaacagaaa cacttttagcc caggatacaa ggaacatttt aaagcaacag 720
agataagaga tagttagaac tcaggcctcc tggtcttgcg tgttcttggc ccataattag 780
ttgttatggg accttaataa acttcttgcc ttcttggtac ctttgccaaa caatctgatg 840
aggagaatat tgagtcatgg tgccagggaa aattagcata ttctgcaaat tcttggcact 900
gttaacactg gattctgtcc acctttagaa atcctcagat cactatgtca gcatccccc 960
atcacagctc tccaacttca aggagggttg aggggtctga ag 1002

```

<210> 163

<211> 1002

<212> DNA

<213> homo sapiens

<400> 163

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aagaatatca gttccacttc ctttgtccct agagagcctt gtagtggatg ttgatgtgtc 60
ttccaacaca tgcaccaacc tttccctgtc ctgtagcagt tgagatggaa tcatccact 120
cccagctcca ggaataggct ctgatgggct tgaaccagc agcttaattc cattgggttct 180
ctaggccttc atcattagta caggaaaggc acttgacctt aattagttcg ataagattta 240
agctcagaaa tctggtttgt tggtatggaga aagagatgct ttctttctct ctggaaggag 300
tttattgcaa aagtaagggc tggggctgct acagccattg tgctaccatg agggaactag 360
ccatgataac aaaacttgcc tggggagggg ctacgcatac cagaaaatga tgccaaagtc 420
ctgtctaaac tgtgcctgat gcctgcctga tctatggact tcttagttcc atgtaatgga 480
ttctctctat ttttaaagcc agtatcagggt tgaatttttg gagaaataaa aaaaaagca 540
tcttgactaa tttaaaaaat cttctttggg tattcaacct tcctaaactc acccccaa 600
ccactgggag catgtcaaga tttttgtgag ccgatttagg agatgcaaat tcatttgcct 660
taattggatc tccaggaaat gacttctgcc cctctttaa tcatttaaag ctcaaagagg 720
catgagggcc ctccccagg atgcaggat cctcttgact gacagcctgt atgctctgct 780
tccaggatcc ttccatctcc tcccttact gagggagtct gctatgtgtt agagggtgcc 840
atcactggtc aactgggaa gctgtggcag ggaagctgga gaaaaagcaa gataggcccc 900
agaaagaaca ccaactccag actcagggag actcaggcca gaatcctagc tcaacttctt 960
ccaagctccc aaagtcacac tcttttctct gagcctcgat tt 1002

```

<210> 164

<211> 957

<212> DNA

<213> homo sapiens

<400> 164

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atcccaactcc cagctccagg aataggctct gatgggcttg aaccagcag ctttaattcca 60
ttggttctct aggccttcat cattagtaca ggaaaggcac ttgacctaaa ttagttcgat 120
aagatttaag ctcaaaaatc tggtttgttg gatggagaaa gagatgcttt ctttctctct 180
ggaaggagtt tattgcaaaa gtaagggtcg gggctgctac agccattgtg ctaccatgag 240
ggaactagcc atgataacaa aacttgccctg gggaggggct acgcataca gaaaatgatg 300
ccaaagtcct gctcaaaactg tgccctgatc ctgcctgac tatggacttc ttagttccat 360
gtaatggatt ctctctattt ttaaagccgt atcaggttga atttttggag aaataaaaaca 420
aaaagcatct tgactaattt aaaaaatctt ctttgggtat tcaacctcc taaactcacc 480

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162/203

```

cccaaattcca ctgggagcat gtcaagattt tctgtgagcc gatttaggag atgcaaattc 540
atttgcccta attggatctc caggaaatga cttctgcccc ctcttaaadc atttaaagct 600
caaagaggca tgagggccct cccaaggat gcaggatatc tcttgactga cagcctgtat 660
gctctgcttc caggatcctt ccatctcctc cctttactga gggagtctgc tatgtgttag 720
aggtgtccat cactggtcac actgggaagc tgtggcaggg aagctggaga aaaagcaaga 780
taggccccag aaagaacacc aactccagac tcaggagagc tcaggccaga atcctagctc 840
aacttcttcc aagctcccaa agtcacactc ttttctctga gcctcgattt tcccatctgc 900
aaaatgggga tactaagggt cacctagctg ggctgcctg gagattccaa gacatta 957

```

<210> 165
 <211> 1002
 <212> DNA
 <213> homo sapiens

```

<400> 165
gggtcctaac aggccacaga cccatccgtg gccagggga ttggcgacc ctgtcttttt 60
ttttttcttt tttttgagat ggagtttcgc tcttgttgcc caggctggag tgcaatggca 120
cgatctcgac tcttcaacct ccgcctcctg ggttcaagcc attctcctcc ctcagcctcc 180
caagtagctg ggattacagg caccgccac catacctggc taatttttgt attttttagta 240
gagatggggg ttctccatgt tggtcaggct ggtcttgaac tcccgacctc aagtgatccg 300
cccacctcag cctcccaaag tgctgggatt acaggcgtga gccaccacga cctgcccggg 360
gacccctgtc ttaaaccacc ccagcctgtg ataactttgt atggtgaccc taagaggcaa 420
atacaccctc ctttcccaa cctctccctc cagacgaaac cgatgcgaaa agtgcttcat 480
gaagtttcag gtaaaagaag cgtgggacga aaaggatag tgaggatggc gggaggggct 540
gaactccaaa tgggcttata aaggctctgc aaaatggcgt gacggcgctg ccccttctgc 600
gtggcctgaa gactaacgca catgatgtca agtgcgggc ccaagtaact aggaaaaggt 660
tctcatttgg aactgggag gtcttacatt gggggccctg agcctccagc ccttccaaat 720
ctattctcag caggagctca gccacacctg tgtcccagaa ctgaggccag gccagcctt 780
cactccacgc ccagccagcc ccaaggaacc gactcctga ggctctatgc tccctgcctc 840
cagtggcccc gtgtctggga aatagtggcc ctggcctgat gccctgacct gggcaatcca 900
tcccctggtc ctctcagctc ccgggccag gttttctggg ctactttaac cagggcaaac 960
tcattcctcg agtacaaaat aaaagattcg aacagcataa tc 1002

```

<210> 166
 <211> 2002
 <212> DNA
 <213> homo sapiens

```

<400> 166
ggttagtggg atgcagcgcg aggctaagga gtgtctgggg ccaccagaag ccagggaagc 60
ctaggaaggg ttttctaga gcctttggag ggagcacagc cctgctgaca cctgacttc 120
agactcccag cctccagagc tgggaaggga taagtagctg ttgctttaaa ccagtgggtc 180
ccaacccttt tggcaccaga aaccggtttt ggttcagtgg aagacaattt ttccacggac 240
aggggtgtgt ggggtgggaga tggtttcagg atgaaactgt tccgcctctg atcatcaggc 300
attagcatta gttagattct cataaggagt gagcaaccta gatccttcgc atgcgcagtt 360
cgcaataggg ttcatgtctc tatgagaacc taatgcggcg gctgatctga caggagcgga 420
gctcaggcgg taatgcttgc tcgccagctc acctgctgtg cagccggggg cctaacaggc 480
cacagaccca tccgtggccc aggggattgg cgacccctgt cttttttttt ttcttttttt 540
tgagatggag tttcgtctct gttgccagc ctggagtga atggcacgat ctgcactctt 600
caacctccgc ctcttgggtt caagccattc tcctccctca gcctcccaag tagctgggat 660
tacaggcacc cgccaccata cctggctaata ttttgtattt ttagtagaga tggggtttct 720
ccatgttggg caggctggtc ttgaactccc gacctcaagt gatccgcca cctcagcctc 780
ccaaagtgtc gggattacag gogtgagcca ccacgacctg ccgggggacc cctgtcttaa 840
accaccccag cctgtgatac tttgttatgg tgacctaaag aggcaataac accctccttt 900
ccccaacctc tcccctcaga cgaaaccgat gcgaaaagtg cttcatgaag tttcaggtaa 960
agaagtctgg gacgaaaagg gatagtgagg atggcgggag agggctgaac tccaaatggg 1020
cttatcaagg ctctgcaaaa tggcgtgacg gcgctgcccc cttctggtgg cctgaagact 1080

```

163/203

```

aacgcacatg atgtcaagtg cggggcccaa gtactcagga aaagggttctc atttggacac 1140
tgaggaggtct tacattgggg gccctgagcc tccagccctt ccaaattctat tctcagcagg 1200
agctcagcca cacctgtgtc ccagaactga ggccaggccc agccttccact ccacgcccag 1260
ccagccccaa ggaaccgact cctgagggt ctatgctccc tgcctccagt ggccccgtgt 1320
ctgggaaata gtggccctgg cctgatgccc tgacctgggc aatccatccc ctggctctct 1380
cagctcccgg gccaggttt tctgggtac ttaaccagg gcaaaactcat tctcagagta 1440
caaaataaaa gattcgaaca gcataatcaa ataggtcata cccataaatc aacacatttg 1500
agcacctatt ttgttgttct ttoactaatc caaacctat ttattgagca tctactatgt 1560
gccattctcc agtagccatt ctagggtgcag gggatacagc agagaccttg aaaaaaggaa 1620
cagtctctga tcttctgtgag cttagagtca agtggagggtg aggaggaagg aatgaatta 1680
acaactaagt gaagcagaag gtaaccaatt gattgactga cgaaggggtg caaacaacaa 1740
acaccttctt ttctccaaac tctatcttta actgtattct ctggttttcc ttctctcca 1800
ttttacaatc attttacaac atctctgggt attctctctat atttctgatc acttcgggtt 1860
tcatcacaat aataatttca gttttcaagc attggaaagt cccatccaat taaaatgtca 1920
atctcacacg cagtttaaac gtttcgcctg cccgtgagct cagacctgtc ttggtgcctc 1980
agttcttgtg tggaggggag ga                                     2002

```

```

<210> 167
<211> 1002
<212> DNA
<213> homo sapiens

```

```

<400> 167
tggtggcctg aagactaacg cacatgatgt caagtgcggg gcccaagtac tcaggaaaag 60
gttctcattt ggacactggg aggtctttaca ttggggggccc tgagcctcca gcccttccaa 120
atctattctc agcaggagct cagccacacc tgtgtcccag aactgaggcc aggcccagcc 180
ttacttccac gccagccag cccaaggaa ccgactccct gaggctctat gctccctgcc 240
tccagtggcc ccgtgtcttg gaaatagtgg cctgggctg atgccttgac ctgggcaatc 300
catcccctgg tctctcagc tccggggccc aggttttctg ggctacttta accagggcaa 360
actcattcct cgagtacaaa ataaaagatt cgaacagcat aatcaaatag gtcataccca 420
taaatacaaa catttgagca cctattttgt tgttctttca ctaatccaaa ccatatttat 480
tgagcatcta ctatgtgcca gttctccagt agccattcta ggtgcagggg atacagcaga 540
gaccttgaaa aaaggaacag tctctgatct tctgagctt agagtcaagt ggaggtgagg 600
aggaaggaaa tgaattaaca actaagtga gcagaaggta accaattgat tgactgacga 660
aggggtacaa acaacaacaa ctttctttt tccaaactct atctttaact gtattctctc 720
gttttcttct ctctccattt tacaatcatt ttacaacatc tctggctatt ctctatatt 780
tctgatcact tcggttctca tcacaataat aatttcagtt ttcaagcatt ggaaagtccc 840
atccaattaa aatgtcaatc tcacacgcag tttaaacggt tcgcctgccc gtgagctcag 900
acctgtcttg gtgcctcagt tcttgtgtgg aggggaggag aggagagggg aggggaggag 960
aggaaaggag accggggagg tgggggggga gaggggaggg ga                                     1002

```

```

<210> 168
<211> 899
<212> DNA
<213> homo sapiens

```

```

<400> 168
ctatctttaa ctgtattctc tcgttttctt tctcttccat tttacaatca ttttacaaca 60
tctctggcta ttctctata tttctgatca cttogggtct catcacaata ataatttcag 120
ttttcaagca ttggaaagtc ccatccaatt aaaatgtcaa tctcacacgc agttttaaag 180
tttcgcctgc ccgtgagctc agacctgtct tgggtgcctc gttcttgtgt ggaggggagg 240
agaggagagg ggaggggagg agaggaaagg agaccgggga ggtggggggg gagaggggag 300
gggaggagag gggaggggag tgggggagaa ggggagaaaa gcgcagctgg ctctctcact 360
ctcctttcct tcttcacat ccttaccctg gccaggggca ggaggaggat tggcagagta 420
gaaggcaggg tcttctgtct tagctgggcc tgttgggtgac tttctgttgg ccaacatggg 480
ctgactggaa tgttctccag catggcacat ggtcatccag atgcaggctc ttccctgggg 540
cactatagca gagaggggctc tcttccagtc tattgcagat ggatgcccct gtgagctgag 600

```

164/203

```

ttttgatgaa catcccatgt cccagccac cccattcaga gcctctttct actctggtcc 660
tctggtccca gcagcagccc tctgggtact gaggggaggg catctcacc aagcccctta 720
aacctgctca ccttcttcag agcccacgtg gccgcaggaa agtcacaaac ccttgtgctc 780
ccacagggca cacgtgtgca cacgtgtgca gctaccttct ctctagttgg tacctgaggc 840
tgcctcctgg attttccagt ctctgtgttc ccagacaacc ccaagcccca agaatacaa 899

```

<210> 169
 <211> 1002
 <212> DNA
 <213> homo sapiens

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<400> 169
agtttaaacg tttcgccctgc ccgtgagctc agacctgtct tgggtgcctca gttcttgtgt 60
ggaggggagg agaggagagg ggaggggagg agaggaaagg agaccgggga ggtggggggg 120
gagaggggag gggaggagag gggaggggag tgggggagaa ggggagaaaa gcgcagctgg 180
cttctcact ctcctttcct tctcaccat ccttaccctg gcccagggca ggaggaggat 240
tggcagagta gaggcagggt cttctgtctt agctgggcct gttggtgact ttctgttggc 300
caacatgggc tgactggaat gttctccagc atggcacatg gtcattccaga tgcaggctct 360
tccttggggc actatagcag agagggtctt cttccagtct attgcagatg gatgccctcg 420
tgagctgagt tttgatgaac atcccatgtc cccagccacc ccattcagag cctctttcta 480
ctctggctct ctggtcccag cgagcagccc tctgggtact gaggggaggg catctcacc 540
aagcccctta aacctgctca ccttcttcag agcccacgtg gccgcaggaa agtcacaaac 600
ccttgtgctc ccacagggca cacgtgtgca cacgtgtgca gctaccttct ctctagttgg 660
tacctgaggc tgcctcctgg attttccagt ctctgtgttc ccagacaacc ccaagcccca 720
agaatacaag agctctgtca ccaagcatcg ggctgtggc tgcactacac gtctgcagct 780
caggaccctt ggctgcggcg taagctacca gcatccctt ctcatgggca cctcatctc 840
cggctcccca tcgctgggct gtgacctgcg ggggcgcccc tctatggaag ggaaggagaa 900
aaattcacag tgctatctac tctctgaat gcactccac caatttctt ggaaatttct 960
agctttcact gacatatctg ggatggggcg gtggtcacia aa 1002

```

<210> 170
 <211> 1002
 <212> DNA
 <213> homo sapiens

```

<400> 170
gtctctgtgt tcccagacaa cccaagccc caagaatata agagctctgt caccaagcat 60
cgggcctgtg gctgcactac acgtctgcag ctccaggacc ctggctgcgg cgtaagctac 120
cagcatcccc ttctcatggg caccctcatc tccggctccc catcgctggg ctgtgacctg 180
cgggggcgcc cctctatgga agggaaggag aaaaattcac agtgctatct actcctctga 240
atgcactccc accaatttcc ttggaaattt ctagctttca ctgacatata tgggatgggg 300
cggtggtcac aaaatcaatc ccactttccc tcggctagtc ttacaagcac ccaacagctc 360
tattcagaat acagggctgc ccagctactt cccattcatt atccccaggt tgcaagcttt 420
agtcaaaacc cagaggcagc aggggtgtctg gttccacctg ctgttaggat gatttcagga 480
gtgcaaagtg ttagaaacgc aggtaaaaca tgatgcttag agattaagt ggatggggac 540
tgggcagatg atgctgcttt ggaccagcg agtgaggatg gactgcgaca agacagagcc 600
actgagcagt gacctggggg atgggcattg caggcaaggc agaaccccaa gtgggaacaa 660
cctcactggg cttagcaaaa cttaaaggag ccaaagtata ctgagcgatg aggtgagtgg 720
cgtgggataa ggttggagag gaggtggaa ccagaccctg cagggccttg caggtgatgg 780
gaaggagttt ggaagggtct ggaaggtttg aagcagagga gggatatgat catgcctgta 840
gctgctatgt agaacaactg tatgcatgcc aggcctgtgc cagcagctgt ctaatcatta 900
ctggctttta cccttgcaat aacgttgtca tgcaggtagg agcatctgca cccagcaaat 960
ggaaactgaa gctcaggaat attcagtcac ttgtccaagg ct 1002

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<210> 171
 <211> 1002
 <212> DNA

165/203

<213> homo sapiens

<400> 171

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acctggggga tgggcattgc aggcaaggca gaacccaag tgggaacaac ctactgggc 60
ttagcaaaac taaagaggcc caaagtatac tgagcgatga ggtgagtggc gtgggataag 120
gttgagagag aggctggaac cagaccctgc agggccttgc aggtgatggg aaggagtttg 180
gaaggtgctg gaaggtttga agcagaggag ggatatgac atgcctgtag ctgctatgta 240
gaacaactgt atgcatgccg ggctgtgccc acgcatgctc taatcattac tggctttaac 300
ccttgcaact acgttgtcat gcaggtagga gcatctgcac ccagcaaatg gaaactgaag 360
ctcaggaata ttcagtcact tgtccaaggc tccccagctg ttaggtgcta aggctggatt 420
caatccagga cttgcagact ccagtatctt ggcttttcta acgagagtgt gctagctttc 480
taatgggggt ggggaaggca gttctgcccc cctcccatgg caccgtgagc aggtgtcact 540
gctccagcca gtacgcctgg acaccgacta ggaaggagta tgtgctacta ggagggatgg 600
tctgggctga ctctttgaag ttgacaagga gttgcataat ccagctaata aattatgctg 660
gaccaggggc agagacatta ctccaagggt gaccaggtgt ggagaagagg ctgctgactc 720
cggggccccc ggacctggcc ccagggtctc attgcccag tgctgcccc gaaggagtga 780
aagctggagc tgtccgggcc acagccgagg ctgggtgaat gctgcagtga ggctgccgca 840
caagttgcgt gttgtgacat ttgtcttctg gaggggattg ggatgggcta cttcagcatt 900
taaaaacccc tactaggtct gagaaatccc ctacgcttat gagcctgggt gggcagcagg 960
ccttctcaag aagcccagaa ggccagatgc tcacttccca gg 1002

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<210> 172

<211> 1002

<212> DNA

<213> homo sapiens

<400> 172

```

cagtgaggct gccgcacaag ttgcgtgttg tgacatttgt cttctggagg ggattgggat 60
gggctacttc agcatTTaaa aaccctact aggtctgaga aatccctca gcttatgagc 120
ctgggtgggc agcaggcctt ctcaagaagc ccagaaggcc agatgctcac tccccaggct 180
ctcttgccgc tgagctgaga gcaggcacct gaggcctggc aagtgtgaca gctggtgaca 240
cagacagaca gggacagggg gatgggactg tgcctgcagc ggtagccctg gccggtgttc 300
agtggggcca gcatccgtgt ctttctggg ggccagtggg ggccgtggct ctgacgatgc 360
atccctcccc cagctTTTTT ctcttcttgt cttggacttt gcaggagaca ctctgctttt 420
gggaacagga gctgggtctc tggccattct ccgcagcccc tcaccattca ctcagtggct 480
ctcaaaaaat agaacctggg agcaaagctg ttcttggccc caaacaacat gaggaaaaat 540
aaataaataa tgtacctggg aactgagaga gttccctctg catcttgggc tctttcaatg 600
agatgtcctc tgcctgcagc aagccccaag ggcttccctc accaggacca gcacctgggt 660
ttgcctgacc ccacacctgc caatgccggg gcaagaatgt ccagggtgc cctgggtccc 720
agagctgatg cttcccacag tgcccagctg tgctggcatg gagctaagga cagggccagt 780
ccaagaaaa caacaaggct ccagggccac cggccactgc tcaggaccct ggctgacccc 840
acagatgcgg agtgctgag atggctcatg ggtgaccccc aggcattctg caaaggtcac 900
aatggctgtt tggcttgaag acagcccttg caagatctgt tttgagccaa cctgtggcat 960
ttagccctcc ctgggtgaca aataaaaagg ctgaggcttg ta 1002

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<210> 173

<211> 1002

<212> DNA

<213> homo sapiens

<400> 173

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attggaagat aagaatgcag ccaaagaggt cttcagggtg gcgtgtggcc tgggcgctga 60
gactattggg cctagcaact tctcaagcag tctattaacc acagccggta gccagctttt 120
ccccgccctt ctcccaggca cacacagcca cctccatcac caaaggtcag gcgaaccacc 180
tcccatggct acccccagcc tgacttgctt tatagaaatc atggcatctc atcctcacia 240
cagcccacac tcacagtga tcttggccat tatgacaact ggggacactg aggtcggag 300
tggtggaaat tctcagaatc acataacaat aagtgttaaa gtcagaattt caacttcac 360

```

166/203

```

tctctaactc caaagggcgt gtgtgtgtgt gtgcgtttct ggccataatc atattgtgcc 420
ctacaagccc cagttaggaa tctgctagga acactggttt ggggaaaaaa tgtaataaaa 480
tatgtgatcc agaagggcgc ctttgggtacc tgtcataaac cgcagcatgg ggtactcact 540
atgcctgggg tctgggctct gaaggcatga ttgaatgatc tcaactgcagg cctgggtgtc 600
ctgcgaagac acccgtcaat acatgaatat tgacacacaa cgctgcagtg cacgcgcttc 660
tggcagggga gctgctgcac tgcagggcag ctcaagggtta atttgcaggg ttcattgttg 720
gagtttctga gcaagtgttg cagctttggc cccagccccc ctgaggggag ctctggccgt 780
gcatgagggg cagacagaaa atctcctttc gctcatccag gcctgcagtc tgcagcactg 840
aggtcagcgc tggccacaag cccaccctgt gcctcgtcag cccactgag cctctccatc 900
tatcatgcca caggctgacc ctgaaatgca aaatcattct gtccctccgc cctccactcc 960
cacctcgcac atctatggat ttgctgttca gaaaacatct gt 1002

```

```

<210> 174
<211> 1002
<212> DNA
<213> homo sapiens

```

```

<400> 174
agtttagattg agctgggtcc catcttgggc ctttgetggt ccctccctag aaagtctgcc 60
ccctcccccct gcagggtggc atcagcattc aggcctggcc ctgacgccct cctctctggg 120
ccaccttcac ctccacaacc ccggcaccag caccatccc caccacatcc ccagcacgca 180
gcatctagta agggcaccaa atgcatgccc agacatatga gtgaaatgaa ttaaccctga 240
acctgaaaaa gggcaaccac cacacaagat tctctagaaa caatgtgaat tgtgcagaag 300
gaaatttaacc ctactccatc cagcccatcc taaggcaggg acttggacct gttcctcttg 360
atggggctgg gctgaggcg ggcaaggcag gcaagtgtg aacagttggc aacattgcc 420
atcccgctctc cctgcaccag gctgggcctg ggggtgaggg gtggggggccg gggtagctgg 480
gctcctccag caaagagcag gtactgagtc cctggtgact attaggtaaa aggtccctga 540
caattttgag gggccagatg ccaactcgag ggatacagag aagatctagg cacagtcttt 600
ccccaccatg tcagacaaaa aggttagata caggacctga tatgttataa aactcaatca 660
atatttactt agtgaataaa tggacggatg gatggatgga tgcattaggc agccaagtgg 720
gcagcaccga tgacttaatg tactgagtc tccgactcca gcaacatgca ttcattgttc 780
ctactgtgtg ccagtgaaca agagcaatga actcaatgac ttctgcccag ggtgggccag 840
ggaaccaggg aagactctcc aaaaaggcag catttgggtc gggacgtaca gatgagtagg 900
gggtcgagtg tgtcgttatg tcgctggagc ccagaggcgt ccatcaggac ttgggggagg 960
gcagatgaaa gggccttact gcctaacttg gagccactgt at 1002

```

```

<210> 175
<211> 2002
<212> DNA
<213> homo sapiens

```

```

<400> 175
cccatcttgg gcctttgtct gtccctccct agaaagtctg cccctcccc ctgcaggggtg 60
gcatcagcat tcaggcctgg ccctgacgcc ctctctctct ggccaacctc acctccacaa 120
cccggcacc agcacccatc cccaccacat cccagcacg cagcatctag taagggcacc 180
aaatgcatgc ccagacatat gagtgaatat aattaaccct gaacctgaaa aagggaacc 240
accacacaag atttctctaga aacaatgtga attgtgcaga aggaaattaa ccctactcca 300
tcagcccat cctaaggcag ggacttggac ctgttccctc tgatggggct ggggctgagg 360
cgggcaaggc agggcaagtgc tgaacagttg gcaacattgc ccatcccgtc tccctgcacc 420
aggctgggcc tggggtgagg ggggtggggc cggggtagct gggctcctcc agcaaagagc 480
aggactgagt ccctggtgac tattaggtaa aaggctccctg acaattttga ggggccagat 540
gccaaactga gggatacaga gaagatctag gcacagtctt tccccaccat gtcagacaaa 600
aagggttagat acaggacctg atatgttata aaactcaatc aatatttact tagtgaataa 660
atggacggat ggatggatgg atgcattagg cagccaagtg ggcagcaccg atgacttaat 720
gtactgagtg ctccgactcc agcaacatgc attcattgtt cctactgtgt gccagtgaac 780
aagagcaatg aactcaatga cttctgcccc ggggtggcca ggggaaccag gaagactctc 840
caaaaaggca gcatttgggc tgggacgtac agatgagtag ggggtcgagt gtgtcgttat 900

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167/203

```

gtcgtgagag cccagaggcg tccatcagga cttgggggag ggcagatgaa agggccttac 960
tgcctaactt ggagccactg tatgtttcaa aacaaaggag acgagaggat cctgggaaag 1020
agaaagggtg ctctaggcag aggatgtgaa tgggcacagc acaggtgaga acatcaagac 1080
caggggctag ggaatctact ggtaaacaat tgtaccccaa gggagcaatc acagcctctc 1140
catccacagg gaaatgcctg gtggggagga atgggaggaa agaaacagat tgcattgactg 1200
tgtcttgaag gtctaattcc agagtacagc atcaccctta tcttccaggt ccagaaactg 1260
aggctcagag ggagactttc tgatgagtgc agcgtgcaga taagagcatc tccaaagcta 1320
cctccttccc cagtcacacc agggcataag caactgataa cagctgtcag cacgggacag 1380
tggagggaac actaggttag gaataagggt acgaggcttg agtacagatt gtcaattgact 1440
cagtgtgtga acttggtcag gtgactccaa ccagatgact tcttctctctg agcttctgtt 1500
ccctcctcta tgaatgggga caatcactca gcttcacaaa acaatggctg cgaaattgcc 1560
tgggtacaaga gagagaactt ccagtgtgta ggggctgttg tcttaactgc ccagccccct 1620
agataggtag ttatgtcatc tgtgaaatgg gtgttagaat tctacacctc caggacagct 1680
gtgggcagaa aaccaaagaa tgtgtgtgag agcccaagca ccatgcctgg cacatagtag 1740
gtgctcagga aaggctgagg gtgcagctgc tgtccacaca catggtacca ctgccccagg 1800
aaggggcttc aggaaccaag agcaattctg agcactggtg actggactct gccattctcc 1860
atttcaaacg ctttttgaaa gcagctccag acccaagcag gagagcagga ggcaaaagaa 1920
acgcaggggc tttcccgaaat ggaattttag aaacacacag aattgtctcc tgcacagaag 1980
ggaagctgtc ttccacagca ca                                     2002

```

<210> 176
 <211> 1002
 <212> DNA
 <213> homo sapiens

```

<400> 176
caactggagct gagactccca ggtcccctag ggcttctctc ccaggggctt ctgggctccc 60
caaggccacg tgctgcccccc actagagacc tgggcccagtc ctgaccaggg gaaagagtag 120
cgccgacaac agccccagat ggtatgtgca ctggcacata ctggcagctg ccttcatgac 180
agcaagccat aggtccaaat cccgccccctt cacagggaca ttcccaactg gtcaggggtg 240
gacctccccct tcccggctgt ctttggtgtc caggacgatt tgccacagac agggggagct 300
aaagggggccc acgcttgagg ccgctcagct ctgagtcctc gccggccaca gaggaccttc 360
gtgctgtctc tctgtctctc tgcccagctc ccaggccagg ctgagctgga gttggggagc 420
agaaaaaacac gcatctgaat caaggctctc ggagcctttg cttctgcctc caagaggcga 480
gggaaaatga ataccagggc agagcgagca agagagacc tccagaaaacc ccagatgcc 540
ctggaatcaa gccctgtccc accaacgcca cgtggattga caggctatta gtcttctgt 600
aattaggatt ctgcctcaa atcttgtatc tttttcccc agaagattct cctccagcct 660
tcaccactgc cccctggcgc ttccctgcaa ggcttttgaa gaatcctttg cagagaagca 720
gcctcctttg gcaggggctg cagagcactc tgccctccca ggccagggcg aaccaacaga 780
ggcgggagat gaggaggagc agcgcggctc tgcctgcgtg ccctgggcaa gcaccacaac 840
ctctctgggc cgtttgcaca ttcttacgc cagggatgtg ggcggtaaat gaaagagacc 900
agcacaacc agtgtcagct cccttctctg attcctaaaa tgtgatgccc aaagatgggc 960
cagcctctctg ctgtgccttc tctgggggga catttaataa gt                                     1002

```

<210> 177
 <211> 998
 <212> DNA
 <213> homo sapiens

```

<400> 177
tggcgcctc ttccagataa caactctcct ctcttctcct gccctcctgc tctctctgtt 60
cgcgctacat aacagactct gtggggcctt ggtttatgta tttcttctc tcccctactg 120
aaatacatgt gagcgatgct ggggcaggcc gactagaaga agcagactat ctgcttcttc 180
tccaccctta gaatggtgct gggcccagaa gaggcattga gtgatattt gctgaataaa 240
tgaatgtcag ataaagtggg gtggggactc caggggaaag atttgtcatt ctccaccctc 300
ccagttcagc ttaaagcaga gaagtgaag gtgcccacaa aggggtgtgt ctggggggtg 360
gggggtgggg atgttccaag atctccaagg cctggatttt aagcaagggt tgagatgcca 420

```

168/203

```

gcaagagggc ctggcattgc cagattgata gtctgcattt cagagaagga caaccccacc 480
tctgacctta gcccagagcc tcaacagcct gctcaaggag atccaccctt agtaggagga 540
ggcagccagg ccaggttcca gtccctgccca ccgcttgcca ggtgtgtctt gggcagcagt 600
tgcctttgct cgggtggtctt cagctttgcc ccctgccagg cacgtgctgg cctcctgcct 660
gcatcgtage tcatggagtc ctctcagtca cctctgtatg ccctgcagca tccccagttc 720
tcagtgaaga gagtgtgctc tgaaagttaa gtaacttacc caaggtcaca caaggtctga 780
gtctcaaata catacaattt gaccccatag tctaaggctc tgaccgcaat ggaataagaa 840
attattttac cattctgagt ggcagtctct gaagactaca gcaataattg atgcctctca 900
gggggatagg tgtgtcactt acaggtgata gtgaggttgt cctcagcctc cctgctcttc 960
gtagacctc cctcctctc tctaccggg ccaagcgt 998

```

<210> 178
 <211> 1002
 <212> DNA
 <213> homo sapiens

```

<400> 178
gcggaacacc tctgccgcac ctgcagcage cttgctctat ttcttcacaa gottccccat 60
gacactgacc caaggctgtc tggccactac agctgctgat gatgattagc aataataata 120
ataataaacg aaatgccttc tgcttagatc atctttaatt tcccctccag aatgacattc 180
gactctgctt agagttacag gcagcccagc aattactgag cgcaaatacc gtgttcaccc 240
gcctcacctc atccacgccc ccacaacacc cagccctgag actggtccca cgatcacctc 300
cactttataa aataagatat caaactctga acagaacgga cgtctcaaaa aatgggcata 360
ttacatttaa accctcaatc tgttggttat ttgagtgaat tggacatacc tccagggagt 420
cgggtggcag ggcgggctct gaggacttcc tgggttggga tcctggctct gcaggactgc 480
gtgaccttgg tgagttactt ctatccctcc aaacgcgtg ttctccttca tagaatggag 540
atgaccacag ggccagattc ataaggttgt tccttgtaat acaggtgaat atccataccc 600
agcaactgct ggaccacctg tggtttcaag gataatttcc ctcccacgtc cccgtggccc 660
ttggaacctt cctctcctcc tgtctcccc tgccccatc actttgtaat tgaaaagtca 720
tgattgctct cccaggtgta gcactgctca caggtcagat tgccctgctc gacgtagtga 780
ctcagttgga tgcggttcag ctgtgtatga tcaactccct ccccttgaca aaaacattat 840
tttgcatcac agagaagttg atttctttca cacataaaag aaggcaaaaa gtggtgccta 900
aagggtcgtt acagcagctt caagaaatca ggaagaacct gggctccttc tgccctcttg 960
ttctgccaat atcaccccat ggotgccact tcatggccca ag 1002

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<210> 179
 <211> 2002
 <212> DNA
 <213> homo sapiens

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<400> 179
ttgtgagtag ggcacgcagg gaagaaacct gttcaaccca gcccctgctt agaaagacat 60
cagcagggcc tgcaaaagcc ctgattaaat ctcaacagtt tgcacctgga gcgcccattc 120
tgaattgcag gtgaatatca gcctttgggt tgggctgtgt gcccagatg atggtgggtc 180
caaattacat aggccaatat ccagagctgg gttaaaatga agcatttcga ggaaaaaat 240
gcaatgaaat ttgtttaacc ggtacttcag gcttttgagc acagaacagc gtccatccct 300
ccaaacacac actgaggata tacacttagc caggagggaa cataaggagg ggtggacaag 360
ccatgtttac taaaatctct cagtgtgtgc caggcatgtt catgtatatt caggaagaag 420
tgtcagttat taagatcctc ggcccttgcc cgagtcccca acacgccttc ttgtctggag 480
aactgtaaat cttggaacaa tcttgcaagg ggggacacct cacagaaggc aggcttggca 540
tggtataaac agaatcgact cctctgcttc cttctgatgc acagtgaatg ggcaggtgga 600
agcatcgttg cttaaagagg aacccaaact ccacccaga gctgctaatt ccttttggct 660
tgacgttatg cagagggcta aaaaatccaa cgaatcacia atcccctggt tgctaagtag 720
aaagaatatg ttttggtctg tgcgtgtccc ttcccacagg aaaagattca agcagaggcg 780
gtccccacct ctcaacacag aaagcaacat ctctgattgc ctctagacac accttcattg 840
tcgtggcact ttgggacctg ctgcccgtg gcttatgggc atggcttccc catcactctg 900
ggtccttggg aagagcctct ttcccagacc ccacctctgt gcctcatcac atttctccca 960

```

169/203

```

ggctattgac ttgttcaagg ttaaggtatg aagagagtca ctgcagcagc cctacctggc 1020
tctgctctgc tgggggaagc cttttcagag cctgcctctt cctcagcatg aggggctgct 1080
cgggcccagt cccagaggcc atgctgggcc caggggaagg tggccgtcat ccccatctgt 1140
gttttctctt gcaggtaagt catgctccag cagtcgggag ggttggtgta tgacacactt 1200
ggcagtttgg gagcaaaagc cgccacagta agacacaatt gattcattgc ctctcaaccc 1260
tctgctgggg tggactttca tgcgtggact tctgtcccca aagaggcttc tctgggtctg 1320
gaaagggccc tagccttggg tgggggaggg aaaggggtgg cggcttccag gtaccatctg 1380
gccaggaacc ggctccattg tctgtgcatg tagcttgcac tgggctgcct gctccaaggg 1440
aggcatctcc ccacgatcta cgacattggc ttcaaagagc tgctcctggc agcttcgaat 1500
ggctgagacc tactggcatg ggatggagga gtgcaggagg cttcccggga cctcgctagt 1560
cctgcctgga tgctcagaag gccctcgtcc tgggtggcat gcagcctcgg ccatttccaa 1620
actcacggca tctcaccag ccattgtcacc ccccccggc tctgtcgccc tcccatcac 1680
ctttctccca cccatcacct cacatcaagg ttccagccag cgggaaccag gtttagactc 1740
caattacctg tgcgtgtggg aggttggatt gtgacatctt tggagggccg ggcttctgaa 1800
gogacatttg atttctggtg ctgaaatgtc aaaggtcctt gaggcaccgc ctagggcagc 1860
acgcggagca tccacctgcg tgcgcacctt gggctctctc tgggccaact ggtgctgggg 1920
acatgccggg agctggtggg cagccctcct cctgcctcct cagtgtgtga tcttcacctt 1980
ctgcagctgc ctaccagaag ca                                     2002

```

<210> 180
 <211> 1002
 <212> DNA
 <213> homo sapiens

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<400> 180
acaccttgac tttagcccag tgcaactgac tccacatttc tggctccaga actgtaagag 60
aatacatttg tgttttggtt agctagcaaa tttgcagtaa tttatgacag cgctatgaga 120
aaccaaaaca ccaggattat gcccgaagga tcttgatgcc ctccctctc tctgctctgc 180
agtgtgctgg agctcacagg gctctgctgc tgggagttag tatctagtcc aacactttac 240
cactcacc ccgaagctaa gggactcctg aaatcaggga ccagatgcat aatagggtgcc 300
caggaagtga gactgcctt cccagatta agaataaaga agacaaacta tccacggctg 360
ctgtgagcct ctcatcagac ctacgttctt agggcagggt cctgcctgt ctccagtatg 420
tggcctctgt gtcttcttcg cctccatcc ccacagtggg acgagaagtc atcaggaagg 480
caggggatct gcaggcagcc agtcagggt ctaattgcag ctggctgggg gaccatgggt 540
cagggctgcc acccctggc tctgtgcctt cacctgtgta acgaatgggg cactcacagc 600
ccctctcaag tggctcctgg gatgaagtga gaaggtgaca tatacaagt agttatacac 660
gttctctgtc tgtcactcac cagtgtcac tgggtgggtc actgaactcc cctcagcgtt 720
tccttctcca tctgtaaacc accagtgcaa acctttccca gatagtgtctg acccgaagca 780
ggaaccagtg cccctctgcc ctacgtaagt ctgccagcag aggaagccca tagagggtct 840
tgggaaatga agccaacaga gtcaagaggg tcagatgatg agggacttca agtgccacct 900
tcattccatt ctttctgcaa atattacca cacacctacg tgacctcagg ctctgtgtca 960
ggctcctgggg atgtaatggg gtccatgaag aaacaaggtc cc                                     1002

```

<210> 181
 <211> 1002
 <212> DNA
 <213> homo sapiens

```

<400> 181
tccccagatt aagaataaag aagacaaact atccacggct gctgtgagcc tctcatcaga 60
cctcagcttc tagggcaggg tccctgcctg tctccagtat gtggcctctg tgtcttcttc 120
gccctccatc cccacagtgg gacgagaagt catcagggaag gcaggggatc tgcaggcagc 180
catcagggtc ctaattgcag ctggctgggg gaccatgggt cagggctgcc acccctggc 240
tctgtgcctt cacctgtgta acgaatgggg cactcacagc ccctctcaag tggctcctggg 300
gatgaagtga gaaggtgaca tatacaagt agttatacac gttcctgttc tgtcactcac 360
cagtgtcac tgggtgggtc actgaactcc cctcagcgtt tccttctcca tctgtaaacc 420
accagtgcaa acctttccca gatagtgtctg acccgaagca ggaaccagtg cccctctgcc 480

```

170/203

```

ctcagtaagt ctgccagcag agggaagccc atagagggtc ttgggaaatg aagccaacag 540
agtcaagagg gtcagatgat gagggacttc aagtgccacc ttcattccat tctttctgca 600
aatattcacc acacacctac gtgacctcag gctctgtgtc aggtcctggg gatgtaatgg 660
tgtccatgaa gaaacaaggt ccctgccctc atagagtggc ctgacatatg cccgaggcag 720
tcagcagccg agtgcgggag actcttgagc agagattgag tgtgttgata tctgtaggca 780
tcagcctggc tttgctgagt gagctatatc agagtggagg aggccagagg caaagtccag 840
actccactgg atcctggatt gaggggagaa ggggctgggc ggaggagcag cctgagcacc 900
tgcattctac tccaactggg tgctgatttg tccccatggc cccagcacc aggcagggtca 960
ccaagtaagc tcaagacaaa aatgatgagt gactcaacag tg 1002

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<210> 182
<211> 1002
<212> DNA
<213> homo sapiens

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<400> 182
ataaattgga tttcatcaaa aatttaaact tctgctccaa aagacactct taacaaaggg 60
aaaaagcaag ccacaatatg agaggaaata tttgcaaagc atctgataaa acatgtggat 120
ctaaaatatg caaggagaat aacaactcta ttttccacta aggaatgaat gactgtacaa 180
ggaccacatt ctaattagga gcttctgaac ccaaaggaat ttcagataag gggaaattta 240
ggcccaaagc caggagaagg ggtgagtagg gcttgatctc tgccctctgaa gggcagaggg 300
cgtggactat tcttggtctt taggggacag ctagagaaat gtgggtctca tggcgacaac 360
tctggactcc attggaagaa ccttctaaca gtcagggctc ccagagataa actagacaag 420
tcaccaagag aggcagtggg taccctcac aggaggggtg caaatcaaag ccaaggcttg 480
gagtggacca tattaatcc attttcttat cctgtgattc ttagagtcct atctgtatca 540
ggggaaggca ggtgggttct agaactttct aaatgtgtcc ctgtgggttt ttccttctcc 600
agctacacac aaacttgggc ctaataagaa gtctatggca ttaaccacgc aggaatgctt 660
aatgcttata tctgacctca aaccaagact gtctccacag tgaacaaccc cgtcctgtcc 720
cctgggcgtc tccttagcaa atgccatcag tcaatgggtg agccatcttg gagcccttgc 780
catctataat cttctaccgc ccccccccca gctgattgtt ttctttgtat gtctccttcc 840
tggacattac ttattcttta cttttaaata tttgcttccg taaaaaaca aatgaatgcc 900
tcggacagat ttataaagaa cattcctgga gaggcgggtg gattaattat tcagcatcct 960
ctccctttgt aactatttat tgtctcatat gcatttatat gg 1002

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<210> 183
<211> 963
<212> DNA
<213> homo sapiens

```

```

<400> 183
ttgcccaagt gatgttccat gtcaggctct agggctccctg cagggacaga gagggactaa 60
catttactta catgcctata gtatgtcagg catatacttg tgcctttata tatatcagct 120
ctgtttttgt cattaaaaa tccctgtaga aagataggca ctgctgtccc attttacaga 180
tggggaaacc caagctctga gtgggttcagc aaaccttggg tgcatacccc caccttgccc 240
ctgcaaaacc aacaaaaaaa cgaaggccct gccttcctgg agctgacatt taggttgatt 300
ctgaaagtca gtaggccagc attttcactc ttcatTTTTt ttgtttggaa tgagagagca 360
cacagctggg tcgggggaag gagcgagggt ctaggcctgc atccactcac cccaaaggaa 420
aggagtaggg gaccagtctg ctggacatgc agacagcgat tggagaaaag tcagcccagc 480
tatgaacccc attcctttca gtactgagcc aagagggatg gcatctgtca gagttgctgg 540
atttgggatt ttgcatcttg ccaagtgtcc atgaggaatt ggggaaactc tccccctggc 600
tggactgagg cttcagcaag cattgttgct gccagtggt gatcagctca gtgtccttgg 660
aaaagagcag aaagtgggat cacgaacata tcttctcctt tgcttctctc tctcactct 720
tcatcatcat catcatcatc atcatcaaat atggatctgt gaggctacct ctggggttga 780
aacttggttt tgggcaaaat ttgtgatgtt ctctctgccc aatccagcct caggctacaa 840
atgaatgtaa aaatctctaa tttagtgcc aagtaacagaa aacagctcta cttatcttaa 900
gccaaaaaga gggacttctc agaggcatac taatggagga tggcaagagg gcctcacgtg 960
gaa 963

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171/203

<210> 184
 <211> 1002
 <212> DNA
 <213> homo sapiens

<400> 184
 gctcttctgc tgtggaggat ccatgccatt gacctaggca cccgttttcc acatattgag 60
 cattgctgag cacctattct gtgccaggca ctgtgcttca gggccatggg ggatgctcca 120
 agcggtaaaa tgcaaccaa gccccgaagg agctcacatt ctagtcatgt ccacaaagag 180
 gtaataaata cataaattgt atgtactatt ctagtacaaa taaaattgtg tcgtactgta 240
 atgctgggta tccattttta aacggggggc atcggctgaa tctgggtcat tacagtagga 300
 aatgcatata tataatcatt tactcatgaa tattaatgta tttaatgagg gtaaaagata 360
 ttactttaaag caaagtattc gttccagcta ctgttggatt tgttcattac tgtttcccat 420
 gcagatatta cctgtgattt acctgcatat caagcatctg gaagtagctc aaatccacct 480
 gtgggtaaat taggttagcc agtttggttg caaaaattac agtggttaact aatttccagg 540
 gtatgcttgc agtcagtagt ttcatactta ggtacatgac ttgcattcac atcatctggg 600
 taatggtgtg aacagagatt ttctttatgg tttttggaat acagtaagat aatgttaaga 660
 taacgtaagt ctgttaacag tacctgggtc tgaactgtat ttataagggtg tatcataaaa 720
 ccattacttt ggagtttgcc aatcttaaat tcagaacaat tcaaaaatga gccagaatct 780
 agtttgcata attaccactt ataaaaataa ggatctgtaa gttggctgga taaaatatat 840
 taaaaataa tgacttaagt ggctctggag ccagcacaaa agataaaaat tgggtatact 900
 caaaattacc ttcaaaatat cttaagtcac tcttaaaata catgtaaata tgccaactca 960
 aaatacatcc aacaaaacta atatttttcc caatttggtg ga 1002

<210> 185
 <211> 1002
 <212> DNA
 <213> homo sapiens

<400> 185
 tcgacgtttc caaagtcatt gggcctatgg tttgtgagct tatttaggtt gtccccgggc 60
 ccagcatcaa aagcattgag acacgtactg agggactctt ttctagcct ctcagtcctg 120
 actgctcaag gaccaagtgg tacttcttgc ctgocgttct ttaatgcttg cctaatatga 180
 gctagtcttc tctgatcact ttttttttta atocaaagta ggtgggcatt gtcccaagag 240
 cctttggaaa gcagctgcct ctacttagga cttcacagca tcattttgct ttgctctctt 300
 tgtggttaaa attaccttcc attcgtgggtg ggtgtatgtc aggatcccca caagaaacag 360
 agggacaccc aaattaggga catacttcag agggactaat gacaaaaggca tgggtgggag 420
 tagaggggaa tacaaggag acttcaagaa tcttggcctt tattataaat gcaatgtatg 480
 tccactatgg aaaatttggg agaaaaaagc aaactagaaa gaagaaaaac cacattgcct 540
 gaattcctac tgcatggaga gaagcatcat aaacaccttt tggaggagtc tcttcttctt 600
 ttctcccttt ctcttcttt gtatagagag gtctttcctg aggacttccc agaactttgc 660
 agatccaaaa tcttaagaat ttgcagaggc agtgaggagt taacatgcac agctcaggga 720
 atattctgct ttttatctgg aaccaggctc ggaacaagac tcttgccttt tctgtcctgt 780
 gttttcatct tctctcagaa cctaacttt gagataagat ctttgactat tattaggcgg 840
 gtgcaaaagt aattgtagtt tttggcatta tttttaatag aactgcttct gtgtcctcag 900
 atctccatcg ttcatctcct gataagtccc tgaaaatttc ctggccctt ggagctcctt 960
 ccaggagtag aatgatcaca agagctgcc a tgtattgctt at 1002

<210> 186
 <211> 1002
 <212> DNA
 <213> homo sapiens

<400> 186
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 ctgaagctgg tgcatgccat gtttcagtaa gagaaaggag ggtgcctggg cttcgtctcc 120
 acccaggtgc ctctcccca gcagctgcac caggccagct gagggggatt ttagcccgaa 180

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tccagggttt  ctctacaga  agacaaggag  tttgggcact  gccagaatta  gaagaacaga  240
aagaaaatgt  tctggatttc  tcatcaaagt  cccctagcct  gagaaatata  actaaattca  300
cccttaggtc  atcttacaat  ctgtcctgcc  ccagtgttcc  ccactcaggg  aactgctcca  360
cccacatcct  ggtcccaaaa  ccagaggcct  gggagtcacc  cttgacattt  cctcccctac  420
acccctaata  aatcaaatac  tgtttatcct  gccctctgag  agtctgcacc  gaaatctctc  480
tctctcctt  cccacctacc  agtggccag  cagctttacc  atcatgtctc  acggatctct  540
gcaccgctcc  caactggcct  gtgcgttcac  tccctgcccc  tccctccagcc  ctgtgtacac  600
tcccttccac  catcctttct  atactctcct  caatcctatc  tgcaccctcc  ttcaaccctg  660
tctgtactct  cctccaatcc  tgtccacaca  ctccaaacaa  agtcataatt  ccaagacaaa  720
tttgaccatg  ccactttctc  ccacagctct  ccaccacctc  caggatccca  tcctcagtgt  780
tagccagaca  ctccaaggc  cttgtgatct  gccctgccta  tgtctccagc  ctcatcctgc  840
aactccccct  acactctgtg  ttctggccat  caaaccaatg  ggctcctctt  cctgcacccc  900
catccactct  tgcacatcct  gcaactctat  tctgaacagc  tcgggtttct  ttcttttctt  960
ctggcacatg  tctgtctctc  ctgcagggtc  tcttagatgt  ca  1002

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<210> 187
<211> 1002
<212> DNA
<213> homo sapiens

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<400> 187
aaaagggaat  ttattggctc  atgtaactga  acttcaacat  tttacagaat  ctcataggct  60
ccaatgggct  catacgtcca  tccccaaacc  aatcacagtg  actgagggat  tatccaagga  120
tcacactggc  cactttcaca  ggttttatcc  cttaaaggaa  tcacaggtaa  tagatgtggg  180
gctgcagaaa  tgcaacatgc  acttttctct  gaaactgcat  cccttttccc  tgaagatgaa  240
gcttgaaaga  actotaagag  gttaagcatg  gagctgatgg  gcaagccaca  ggagaaaga  300
gtagctgtgc  agccaggctc  ctggccaggg  agggcagata  aggaggggag  gcaaagtgtg  360
gtaaacagga  agctaatact  tgggcaagaa  tcattttctt  cagcatcctg  acctctccta  420
aaatgttctc  cactggctcc  tgctaggaca  aaggaattac  caccagacta  gagtcaggag  480
tccctgggct  gttctgctgt  agtgacacag  gacagggtgg  ttgcctggct  tgggccacag  540
cctcctcccc  tgttgatgag  catgttggtt  gttccagcac  catgtcagcc  ctagaaatct  600
ctgaattctt  gaccagatca  gtaattgctc  tcttgcgttt  acttttctct  caaataaaga  660
gattggcata  caggggagga  gccaggtaca  gacggcatgc  ttggctcagg  ttccagaacc  720
cagaaaccag  acaagagttg  ggaaaccatg  atggtggagg  aggggtgtgc  actccttact  780
agtgcctaata  ctcttcgaga  cactaatgtt  tcagtattat  ccacagattc  tgatgccagg  840
cagccagat  gactggggct  agttattagc  atgcttctct  gaggtgggtc  ccagggtcag  900
gctacctgca  gtctggctgg  atgggcccct  caccacactt  gcttctggga  agctgggttt  960
ggggttgcca  caatctctga  aagaatcact  aggccaccct  ct  1002

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<210> 188
<211> 1002
<212> DNA
<213> homo sapiens

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<400> 188
ttcacagggt  ttatccctaa  aggaaatcac  aggtaataga  tgtggggctg  cagaaatgca  60
acatgcactt  ttccttgaaa  ctgcatccct  tttccctgaa  gatgaagctt  gaaagaactc  120
taagagggtta  agcatggagc  tgatgggcaa  gccacaggca  gaaagagtag  ctgtgcagcc  180
aggctcctgg  ccaggggagg  cagataagga  ggggaggcaa  agtttggtta  acagggaagct  240
aatctatggg  caagaatcat  tttcttcagc  atcctgacct  ctccataaat  gttctccact  300
ggtccctgct  aggacaaagg  aattaccacc  agactagagt  caggagtcct  gggctgggtc  360
tgctgtatga  cacaggacag  gtggcttgcc  tggctctggc  cacagcctcc  tcccctgttg  420
atgagcatgt  tgggtgttcc  agcaccatgt  cagccctaga  aatctctgaa  ttcttgacca  480
gatcagtaat  tgctctcttg  acgtttactt  ttccttcaaa  taaagagatt  ggcatcacagg  540
ggaggagccc  agtacagacg  gcatgcttgg  ctcagggttc  agaaccacga  aaccagacaa  600
gagttgggaa  accatgatgg  tggaggaggg  tgtgccactc  cttactagtg  cctaactctc  660
tcgagacact  aatgtttcag  tattatccac  agattctgat  gccaggcagc  ccagatgact  720

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173/203

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ggggtcagtt attagcatgc ttcttgagg tggttcccag gtgcaggcta cctgcagtct 780
ggctggatgg gccctgcacc acacttgctt ctgggaagct ggttttgggg ttgccacaat 840
ctctgaaaga atcactaggc caccctctga gtgggtcctt ctgtaggaat tatggataaa 900
attgttccac tagtcttacc ttcttgggga acccttcctg gattcccagg ctgggctggg 960
tgtccctgca gcctagcccc acagccctcc tgcttctctt tc 1002

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<210> 189
 <211> 961
 <212> DNA
 <213> homo sapiens

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<400> 189
tgacctctcc taaaatgttc tccactgggc cctgctagga caaaggaatt accaccagac 60
tagagtcagg agtcctgggc tggttctgct gtatgacaca ggacagggtg cttgcctggt 120
ctgggccaca gccctcctccc ctggtgatga gcatgttggt tgttccagca ccatgtcagc 180
cctagaaatc tctgaattct tgaccagatc agtaattgct ctcttgctt tacttttct 240
tcaaataaag agattggcat acaggggagg agccagtag agacggcatg cttggctcag 300
gttccagaac ccagaaacca gacaagagtt gggaaaccat gatggtggag gagggtgtgc 360
cactccttac tagtgccctaa tctcttcgag acactaatgt ttcagtatta tccacagatt 420
ctgatgccag gcagcccaga tgactggggt cagttattag catgcttctt ggaggtgggt 480
cccaggtagc aggtacctg cagtctggct ggatgggccc tgcaccacac ttgcttcttg 540
gaagctgggt ttggggttgc cacaatctct gaaagaatca ctaggccacc ctctgagtgg 600
gtccttctgt aggaattatg gataaaattg ttccactagt cttaccttct tggggaaccc 660
ttcctggatt ccagggctgg gctgggtgct cctgcagcct agccccacag cctcctgct 720
tctctttctc atcacagtct tgttatctct accaactgta ggccctgccc actgatggtg 780
tgaataaagg gactgggtct ctctagcacc tagcatagat ctgatacata gtgggtgatc 840
tctattgaat gaacgatgaa tgaatgaatg aatgaatata tttagataat tcagattact 900
ctttctagct cagcagtgtg aagcaggaag acatgctgtc aatatgattt agggcaagtt 960
t 961

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<210> 190
 <211> 1002
 <212> DNA
 <213> homo sapiens

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<400> 190
aacgatgaat gaatgaatga atgaatacat ttagataaatt cagattactc tttctagctc 60
agcagtgtaa agcaggaaga catgctgtca atatgattta gggcaagttt tcaaactctc 120
ctggacctca gttttacctc ttgaaaaata aatataataa tttgtcctta cttcatgaga 180
ctattttgaa gattaaatga gataatgtat acactactac tcaactgtct tacttgaata 240
ttcctaggtc cttgggtgcta cattaggcta catagaatgt atttaaagta atagagtgg 300
atttaataaa tattcatttt ctttccccag aactacctta aattaatttg ttgaaaggac 360
agatggatgg atggttgatg gaagtagcag gcttccagca gcaggggatg gagtgagtgt 420
gtggataccg ctggatcagc agaaggttat accatttttag agtaactatc tcggacttcg 480
gagagttcct gggatgaag cgtttggctt taattaaagt ctacgacacag tgttaaagtc 540
cattttatatt taggtcataa ttaacactaa tgagatgagt ggattacaaa gagcacacat 600
tttgagaaag tgaaaaacaa catctgagct tggtgggttc cattttcgtt tttccccctc 660
ccatgctctg ttcaattaaa agttttgaga aaatattaca accatactcc ttgtctttgt 720
ggtaatgaag catatttaatt tgaatgtgat gaatacaata ttccactgac ttttttattc 780
ccttatctac aaaagtttaa aataatggac caattaaacc aggagagaag aatgcagggt 840
ttgcctgggg atccaattca gcaaccagag aactgaaaga acaaaatttt ttgacggagt 900
ctgggccaga cttcatcctt tacctatagc tgacaaacag taagtcaaat tgggcagatg 960
tggaccagcg cagaacacat actatattga ggatcgaaag gc 1002

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<210> 191
 <211> 1002
 <212> DNA

<213> homo sapiens

<400> 191

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gtgtaaagca ggaagacatg ctgtcaatat gatttagggc aagttttcaa atctctctgg 60
acctcagttt tacctcttga aaaataaata taataatttg tccttacttc atgagactat 120
tttgaagatt aaatgagata atgtatacac tactactcac tgccttact tgaatattcc 180
taggtccttg gtgctacatt aggctacata gaatgtattt aaagtaatag agtgggtattt 240
aataaatatt ctttttcttt cccagaact accttaaatt aatttggtga aaggacagat 300
ggatggatgg ttgatggaag tagcaggctt ccagcagcag gggatggagt gagtgtgtgg 360
ataccgctgg atcagcagaa ggttatacca ttttagagta actatctcgg acttcggaga 420
gttcctgggt atgaaggttt ggctttaatt aaagtctcag cacagtgtta aatgccattt 480
tatttttaggt cataattaac agctaattgag atgagtggat taaaagagc acacattttg 540
agaaagtgaa aaacaacatc tgagcttggt ggtttccatt ttcgcttttc cccctcccat 600
gctctgttca attaaaagtt ttgagaaaat attacaacca tactccttgt ctttgtggta 660
atgaagcata ttaatttgaa tgtgatgaat acaatatttc actgactttt ttattccctt 720
atctacaaaa gtttaaaaata atggaccaat taaaccagga gagaagaatg cagggtttgc 780
ctggggatcc aattcagcaa ccagagaact gaaagaacaa aattttttga cggagtctgg 840
gccagacttc atcccttacc tatagctgac aaacagtaag tcaaattggg cagatgtgga 900
ccagcgcaga acacatacta tattgaggat cgaaaggcca ggttccagac cgtcctctaa 960
tattttctta gtgaatattt gttggatgaa tgcattggatg gg 1002

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<210> 192

<211> 963

<212> DNA

<213> homo sapiens

<400> 192

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cttacttcat gagactattt tgaagattaa atgagataat gtatacacta ctactcactg 60
tccttacttg aatattccta ggtccttggt gctacattag gctacataga atgtatttaa 120
agtaatatag tggattttaa taaatattca ttttctttcc ccagaactac cttaaattaa 180
tttgttgaaa ggacagatgg atggatgggt gatggaagta gcaggcttcc agcagcaggg 240
gatggagtga gtgtgtggat accgctggat cagcagaagg ttataccatt ttagagtaac 300
tatctcggac ttcggagagt tctgggtat gaaggtttgg ctttaattaa agtctcagca 360
cagtgttaaa tgccatttta ttttaggtca taattaacac taatgagatg agtggattac 420
aaagagcaca ctttttgaga aagtgaaaaa caacatctga gcttggtggt ttccattttc 480
agcttttccc cctcccatgc tctgttcaat taaaagtttt gagaaaatat tacaaccata 540
ctccttgtct ttgtggtaat gaagcatatt aatttgaatg tgatgaatac aatattccac 600
tgactttttt attcccttat ctacaaaagt ttaaaataat ggaccaatta aaccaggaga 660
gaagaatgca gggtttgctt ggggatccaa ttcagcaacc agagaactga aagaacaaaa 720
ttttttgacg gagtctgggc cagacttcat cccttaccta tagctgacaa acagtaagtc 780
aaattgggca gatgtggacc agcgcagaac acatactata ttgaggatcg aaaggccagg 840
ttccagaccg tcctctaata ttttcttagt gaatatttgt tggatgaatg catggatggg 900
tggatgaata gatggatgga tggacagatg gacggagaga gagatggatg aatggattgt 960
tgg 963

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<210> 193

<211> 939

<212> DNA

<213> homo sapiens

<400> 193

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gcaggcctgt gaacctgaca catggtccag gtgtctccct gaggacttct ggaagtctcc 60
coacctctct gtggtccttt aggcattaac accaccttgt cactgtgtct tctgaggcag 120
tctggaagtt cataccccac aatctctgtg taccttgtcc ccattctgt tctctgcatt 180
gcagatgggt taaaacacac acacatacac gcgcaaaatg ttgttccctt tcttaaaacc 240
cattgtggcc aggctagaca aatccttaac acggtctaca atattctgca tggcatggcc 300
cctgggtgcc tcccaacctg atctgtcaca caccacctcc accttgcct gttccctggg 360

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ccctagcaact aaccttttgggt tcatttcctag acaccttttcc agcacttagg cccccacagc 420
cctcagaacc tttacacttg ctgtctcttt tgctttaaag tgttcttgcc ccacctacca 480
cctagttaat gccttttcct ccttcagctc ttagttagaag catcacttcc tcaaggaggg 540
cagccctgat gaaactcatt atgcaaaactc cagcctgggt tgggccttat ctttatgctg 600
tcatggccct gagtattctt cctttatggc accaatcacg gcttatatga tatacttatg 660
ctattatttg agttatgtct gtotcccccga gtatgccact agtattagaa tcattgattt 720
ttaatcattg tatccctagt gcttagcaca gagcctggct cataatagat gcttaataaa 780
tatttgttga ataaatgaat gagtgaatga ataaatgcct cattcaagag ctttggctct 840
ttctgtacta ctacattact tctatttttt agctcttaat tctcaaagca ctttctttgt 900
gctgggctta tgctgggagc ttagacagta aagcttaga 939

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<210> 194
<211> 1002
<212> DNA
<213> homo sapiens

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<400> 194
ttacatccac aggttttgatt ataaatgtgt gtattgaatt ggaattttctg ttgaaattct 60
gatcccttct agacaaagaa ggtaaaaaatt gaaacatgtc aatggatata taaatatcat 120
tactcactgg ctttattttgc aaatggcttt ccattgacaa cagttacatt ttgttcaaag 180
caacaaatga ttggcgctga caatccacag gaacatgggtg cagtcattaa tgaatgtgct 240
cattattcct ccctgccggg aggcacgcac tcccgttctc cagcctgttt taagcagaca 300
gacctacatc tgcacctgtc agcttggaa cctagtaggg gagggggatg ctgatgtgat 360
ggagaatgaa gaatgggccc tgcaggctga ctttttggga gtagtaggtc tgaaatttat 420
cccaaaggac atggaatcct ggaagcaggg ttcaagatcc tccaaaatt gatctccag 480
gatgcttgga atgattgttc ctgagggttt tgtaaaatgc caggggaaaa ccaggaagct 540
tctctccagt tgtcttgctt ccttctctct cagtctccat ggagctgact ttgagaatta 600
actcctgagg gacagagacc ctgggatgga gagccagccc tgctggattc cacaaggtgc 660
tgcttaaagc acaacacctc ttcccaatga caggttctga aagaaggcct tgtagctaga 720
tgcacagagg gttttgtttt gttttttttt ttttaacctt tcagcatctg tctaaaattg 780
ctctgggctg ggtacagtgg ctcccacctg taatcccaac actttgagag ctgaggcagg 840
aggatcgctt gagcccaggc gttctagacc agcctgggca atatagttag atctctatgt 900
ctagaatggt ttttaattag ctgggcttgc tgctgcacc tgtaattcca gctacttggg 960
aggctaaggt ggggggatca ctcgagccca gggggctgag gc 1002

```

```

<210> 195
<211> 1002
<212> DNA
<213> homo sapiens

```

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<400> 195
ccttctagac aaagaaggta aaaattgaaa catgtcaatg gatatactaaa tatcattact 60
cactggcttt atttgcaa atgttttccat tgacaacagt tacattttgt tcaaagcaac 120
aaatgattgg cgctgacaat ccacaggaac atgggtgcagt cattaatgaa tgtgctcatt 180
attcctccct gccgggaggc atcgactccc gttctccagc ctgttttaag cagacagacc 240
tacatctgca cctgtcagct tggaacccta gtaggggagg gggatgctga tgtgatggag 300
aatgaagaat gggccctgca ggctgacatt ttgggagagt aggttctgaa atttatccca 360
aaggacatgg aatcctggaa gcagggttca agatcctccc aaaattgatc tcccaggatg 420
cttggaaatga ttgtttccgag ggttttgtaa aatgccaggg gaaaaccagg aagcttctct 480
ccagttgtct tgccctcttc cgtctccagt ctccatggag ctgactttga gaattaactc 540
ctgagggaca gagacctggt gatggagagc cagccctgct ggattccaca aggtgctgct 600
taaagcacia cacctcttcc caatgacagg ttctgaaaga aggccttgta gctagatgca 660
cagagggttt tgttttgttt tttttttttt aacctttcag catctgtcta aaattgctct 720
gggctgggta cagtggctcc cacctgta atcccaacactt tgagagctga ggcaggagga 780
tcgcttgagc ccaggcgctt tagaccagcc tgggcaatat agtgagatct ctatgtctag 840
aatgtttttt aattagctgg gcttgctgcc tgcacctgta attccagcta cttgggaggc 900
taaggtgggg ggatcactcg agcccagggg gctgaggctg cagtgaacca tgattacacc 960

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176/203

actgaactcc agcctgggca acagagtgag accctgtctc aa

1002

<210> 196

<211> 1002

<212> DNA

<213> homo sapiens

<400> 196

```

ctgatggaac tgggatgtga gaagaaggca ggttttctga taaacaattc ctgtatcttt 60
cacaaatgcc aaatcacaga ctacagcttg gacatatgag gacagcacag actttggagg 120
caggtagatt ttgggttgtc acgcagacac ccactactat gagacctgga ttctcttctg 180
acgttatttg ggataagaag tggcacctca ccatttctag gaaatagtag gtaagtcttt 240
ctggttgcca ctgaggtgac tcacctgaga cacagttgct cctaaagttc aagggttagga 300
gacaatccag aaggggagct gtctgtgaag tcagaattct tggaagaatg taagtcttta 360
cacagtaaca gcaaagcaga cagtgggaac cactactctg ccttcttgca tcattctttc 420
ctagaaatag cagaaagcag tgagggatta agtctaattc ctggcacctg accttatatc 480
taacagatgc tcagtattac cgtgttgatg ggacctcact gggaatgttt tgtgtgcagt 540
acaaaagggc aatagatgaa actttgggac gggagcccag gaaaatggct gagaggagag 600
cttatgccta gcttatgcat gagcttgcaa aaagggagaa tacacgggag ggaagatcag 660
caacagcatg agttttataa ggcagagagt tgttgggaag gaagcagcag ggagagggga 720
aggagtaagt agaaacctag aagagataca gctaagataa gccaaagaaa caaagtattg 780
acttaccaga aacatggaag tcttcctgct tctaatttag ttccgcata ctggatatgt 840
gaatgcctaa aatcccatta agcccagtg gtttaattatt acacttgcta gggccccaga 900
ggagaggaaa cacagtaagt cagaaaaacc tctgggcagg tgaatttctc aggttttctt 960
ctgggcagat gggatctgga atggtagcgt ggcacctgg ta 1002

```

<210> 197

<211> 969

<212> DNA

<213> homo sapiens

<400> 197

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cctttccaat attaaaataa tattaacatt ggtaatagtg gtactaaaca acttaggggtg 60
tttttttttt catttaatag tatattttta gtatctttcc aggaaaagat acatggatgt 120
gccacattat ttttaatggc tcacatggta ctccctttat gtatgcaacta taatttatgg 180
aaccagtttt ctccaccgat agcatgtaag ttctttcagt cttttactgt tataaacgaa 240
tgatgcaatg aatatccttg tacatatata tttgtgcgca tatgtaggta tccttacaag 300
tggaatttct gaataaatgg atatatacaa tttatttatg aatttacctt cctacaagtg 360
attcaagaga gtgtctttgc tccacagtgt tgtcaatata gtgtattctc aaaatctgac 420
accaatatgt gtgaagtgcc tgctctgttc ccacacttta cacaggttct cttatttgca 480
gttaagttta tttagaaga ggaaactggg cctcatggag atctaggaaac ttgcccagg 540
acaggtctct gtgactctaa gagtgcgaatc ttcccttttc cccatgtcaa gcacctttcc 600
ccaccaggct cactgctgac aatccagtgt acgaagaagg gaaattaccc ccacagagcc 660
caaaagttta ggacatgccg acagcatcac tcttttgctt cctcattctc tctttcattt 720
ccagaacatt tgctcactca gtgctgccc gtgatactta gccagcctga ttacctatct 780
aataatttct gatactaata taaaaccttc ccaaagacaa atataactga gacgcactcc 840
agcttaccat agctttcctg gtggtacagt ttccagggac atttcaactgt gtcaaagcag 900
ggaccacata tgttccagac cagcttggtg gggttttcac tgggaagtga agacaaattg 960
ttgtccctt

```

<210> 198

<211> 1002

<212> DNA

<213> homo sapiens

<400> 198

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ttcccacact ttacacaggt tctcttattt gcgttaagtt tatttaagaa gaggaaactg 60

```

177/203

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ggcctcatgg agatctagga acttgcccaa ggacaggtct ctgtgactct aagagtgcaa 120
tcttcccttt tccccatgtc aagcaccttt ccccaccagg ctactgctg acaatccagt 180
gtacgaagaa gggaaattac cccacagag cccaaaagtt taggacatgc cgacagcatc 240
actcttttgc ctctcatttc tctctttcat ttccagaaca tttgctcact cagtgtgtgc 300
cagtgtact tagccagcct gattacccat ctaataatct ctgatactaa tataaaacct 360
tcccaaagac aaatataact gagacgcact ccagcttacc atagctttcc tgggtgtaca 420
gtttccaggg acatttcact gtgtcaaagc agggaccaca tatgttccag accagcttgt 480
tgggtttttc actgggaagt agaagacaaa ttgttgtccc tttgaaaaag catctttcat 540
ctctccatct atctgcgac taaagcaatg gggctctttc tgtatgtctt tcaaattggtc 600
tacctgaca cactgtttct ctgagctgcc gagagaatat gccatgagat gttgccagt 660
atggttacac tcagctagca gaagattagg gactggttaa accttggag aaattgcctt 720
gggaaaagag gaaataaaaag caaatattac tatgaaacat agagattacc aggtaggagg 780
aggagagagg tggagggagg ggtaggagtg gaaggaaggg agggaggcag aaagagggaag 840
gcagactggt ggaaaataaa ccgtgcactt tagaacagca ggaaggaggg cttggaagcc 900
tggttttctg gctttgaatg accgcctagc gcttgccggg gcgccagggt gctgtgagga 960
tgtgggcaga gggcgagtc taaagggctcc agacactggg aa 1002

```

<210> 199
 <211> 1002
 <212> DNA
 <213> homo sapiens

```

<400> 199
gagaatatgc catgagatgt tgccagtgt gggttacctc agctagcaga agattaggga 60
ctggttaaac ctttggagaa attgccttgg gaaaagagga aataaaagca aatattacta 120
tgaaacatag agattaccag gtaggaggag gagagagggt gagggagggg taggagtgga 180
aggaaggagg ggaggcagaa agaggaaggc agactggtgg aaaataaacc gtgcacttta 240
gaacagcagg aaggagggtc tggaaagcct gttttctggc tttgaatgac cgcctagcgc 300
ttgccggtgc gccagggtgc tgtgaggatg tgggcagagg gcgagtccga agggctccag 360
acactgggaa tagtggtggt cgtgtgtctc tccctgaaac ttttgacta cctcggactg 420
attgacttgt cagacggtaa gcgaaccctg gagcttcccc gttttctgtg aatgtgtttt 480
tgtggcttcg gttgtctgtg cgagtgcgtt cgaaaatgca cggaaatgag ggcggagacc 540
cgagagatct gaaaaagccg ggctgaaaca gcgtggtatt ggtccccgcc tccccagtcg 600
cgccccagtg ctgcgtgtgc cgtcgtgtgc aaatgtggtg cgctgggga gtgcgggagc 660
caggaaagta ggggtctctg ctccggccct atgagcatgt gagtcttgat ggattattag 720
ctatgggtga ggcacgcaca acacatcaca attctctctg aagctgtctg gtaactacgt 780
atattgttga tggaaagccag tgacttttaa aagccattat gttgattaac ttttttaaag 840
aagtttagga gattatatgg aggtaaaaac ctttgtaaaa tgctaatac agtgtctgac 900
aattagaaca catttaataa atgtcagttt ctttgcctca cccttataag aacccttatt 960
ccaaagccac ctctcagct ctgacttcag ctccattctc ta 1002

```

<210> 200
 <211> 928
 <212> DNA
 <213> homo sapiens

```

<400> 200
tgctgtgaca gtcgttttga aaatgcacgg aaatgagggc ggagaccoga gagatttgaa 60
aaagcggggc tgaacagcg tggatttgg cccgcctcc ccagtcgcgc ccagtgctg 120
cgctgtccgt cgtgctgaaa tgtggtgcgc ctggggagtg cgggagccag gaagttaggg 180
tctcctgtct cggccctatg agcatgtgag tcttgatgga ttattagcta tgggtgaggc 240
cagcacaaca catcacaatt ctctctgaag ctgtctggta actacgtata ttgttgatgg 300
aagccagtga cttttaaaag ccattatggt gattaacttt tttaaagaag tttaggagat 360
tatatggagg taaaaacctt tgtaaaatgc taatcacagt gtctgacaat tagaacacat 420
ttaataaatg tcagtttctt tgctcagacc cttataagaa cccttattcc aaagccacct 480
cctcagctct gacttcagct ccattcctta gtgagaatgg ggttataaat ccaggttaac 540
ccgattgttt aggattagaa agtgatttgg tttccaacgt tgaaggagtt caagaaaca 600

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178/203

```

agagttttat ttttcctcct tatgagatat tgttccaaat agaacacagt ttgtctagat 660
gattttttgtc acttaaaatt aggtccagg aaagattcca aatttcatga gcaattgggc 720
tcataaaaca agatcaaact ccaatagtgt atatccaaag tatgtataat gtgtattcgg 780
tgtatattct tccaccactg catggtgtag acagaatttc tcttccaagg ggcaccacat 840
gacaaaaccg tacataataa tgaaatgcat ttgtagacaa aggactagct aaaataccaa 900
ctgaaagtgg gaagaccaga aactgaag                                     928

```

<210> 201
 <211> 2002
 <212> DNA
 <213> homo sapiens

```

<400> 201
aattgccttg ggaaaagagg aaataaaagc aaatattact atgaaacata gagattacca 60
ggtaggagga ggagagaggt ggagggaggg gtaggagtgg aaggaaggga gggaggcaga 120
aagaggaagg cagactggtg gaaaataaac cgtgcacttt agaacagcag gaaggaggcg 180
ttggaagcct ggttttctgg ctttgaatga cgcctagcgg cttgcccgtg cgccagggtg 240
ctgtgaggat gtgggcagag ggcgagtcgg aagggtcca gacactggga atagtgggtg 300
tcgtgtgctc ctccctgaaa cttttgcaact acctcggaact gattgacttg tcagacggta 360
agcgaaccct ggagcttccc cgttttctgt gaatgtgttt ttgtggcttc ggttgctgtg 420
acagtcgttt cgaaaatgca cggaaatgag ggcggagacc cgagagattt gaaaaagccg 480
ggctgaaaca gcgtggtatt ggtcccccgc tccccagtcg cgccccagtg ctgcgctgtc 540
cgtcgtgctg aaatgtggtg cgccctggga gtgcgggagc caggaagtta ggtctcctg 600
ctccggccct atgagcatgt gagtcttgat ggattattag ctatgggtga ggccagcaca 660
acacatcaca attctctctg aagctgtctg gtaactacgt atattggtga tggaagccag 720
tgacttttaa aagccattat gttgattaac ttttttaaag aagtttagga gattatatgg 780
aggtaaaaac ctttgtaaaa tgctaatac acgtgtctgac aattagaaca catttaataa 840
atgtcagttt ctttgtcaca cctttataag aacccttatt ccaaagccac ctctcagct 900
ctgacttcag ctccattcct tagtgagaat ggggttataa atccaggta acccgattgt 960
ttaggattag aaagtgattt ggtttccaac gttgaaggag gttcaagaaa caaagagttt 1020
tatttttctt ccttatgaga tattgttcca aatagaacac agtttgtcta gatgattttt 1080
gtcacttaaa attaggctcc aggaaagatt ccaaatttca tgagcaattg ggctcataaa 1140
acaagatcaa actccaatag tgtatatcca aagtatgtat aatgtgtatt cgggtgtatat 1200
tcttccacca ctgcatggtg tagacagaat ttctcttcca aggggcaacca catgacaaaa 1260
ccgtacataa taatgaaatg catttgtaga caaaggacta gctaaaatac caactgaaag 1320
tggaagacc agaaactgaa gtgtaagatg aggtaagccc tggagtaaga gtcaagaaat 1380
ccactttcta tccataatct gtctcggttt aatgttggtc aagtcatttt ttaaaaaatt 1440
ctaggtcttg gtttccttat gatgacttta gatctctgtt ccttggaatt ctagagtgat 1500
ccaaaggttt ctttgaattc agttttgtgg gttgagacgg gcagccagac tgtgagtccc 1560
tcagctctgc ttcaaccaga acagctccac ttactgttc agcatgttag ccctgtatgt 1620
aaggatgttt tttagcttta gctaaaattt agtgactcta tgacctaaag gccctgttc 1680
cctgagattt tgaaagctga agcacattcg gaaaaatttt tcttccttaa aaatcacctg 1740
aaatctgaca atctggaaga ctagttctgt ctgctccagc ccttgggtccc ttagatgtgc 1800
ttttctgaag atccaaactc aacctgccag tcaatatacc aactgagcag agcccctgtt 1860
ctccaccaga tttcaagaga acatgttcca ttctgttcca gagcttcaga gcagcttccg 1920
ctaagattgc acattaatgc aacagcgtcc tattttcttt gtttcttttt tttttttttt 1980
tttttttttt gatgagacag gg                                     2002

```

<210> 202
 <211> 895
 <212> DNA
 <213> homo sapiens

```

<400> 202
atttttctc cttatgagat attgttccaa atagaacaca gtttgtctag atgatttttg 60
tcacttaaaa ttaggtccca ggaaagattc caaatttcat gagcaattgg gctcataaaa 120
caagatcaaa ctccaatagt gtatatccaa agtatgtata atgtgtattc ggtgtatatt 180

```

179/203

```

cttccaccac tgcattggtgt agacagaatt tctcttccaa ggggcaccac atgacaaaac 240
cgtacataat aatgaaatgc atttgtagac aaaggactag ctaaaatacc aactgaaagt 300
gggaagacca gaaactgaag tgtaagatga ggtaagccct ggagtaagag tcaagaaatc 360
cactttctat ccataatctg tctcggttta atgttggtca agtcattttt taaaaaaatt 420
ctaggtcttg gtttccttat gatgacttta gatctctgtt ccttggaatt ctagagtgat 480
ccaaagggtt ctttgaattc agttttgtgg gttgagacgg gcagccagac tgtgagtccc 540
tcagctctgc ttcaaccaga acagctccac tttactgttc agcatgttag ccctgtatgt 600
aaggatgttt ttttagcttta gctaaaaatt agtgactcta tgaccctaag gccctgcttc 660
cctgagattt tgaaagctga agcacattcg gaaaactttt tcttccttaa aaatcacctg 720
aaatctgaca atctggaaga ctagttctgt ctgctccagc ccttggtccc ttagatgtgc 780
ttttctgaag atccaaactc aacctgccag tcaatatacc aactgagcag agccctgtt 840
ctccaccaga tttcaagaga acatgttcca ttcctgttca gagcttcaga gcagc 895

```

<210> 203
<211> 1002
<212> DNA
<213> homo sapiens

```

<400> 203
ctctaaaatt tcaccctctg ttctgtacac caagtacctc agcaagtaat ccagttccag 60
atgggatctg cagtctgcc aataagtctt accacacata ggctcttatg ctagagccct 120
taccatatgg tccaaaatgc cttttttaat gtgtatttga tatggagact ctgttcacaa 180
tttgagtact aaagagagaa taccacctcc tagtagatac accaggacca atgtaatgct 240
gtcattctaa ggagagcagt ggaacatctc caaagaaccc atctgtagtc ttccttcggc 300
ccttgatctt attcctattt tttttttaa gttttttttt ttttcttcga gactaaatct 360
cactctatca cccaagctgg agtgacgtgg catgatatca gttcattgca acctctgcct 420
cccggactca agcgattctc ctactcagc atcccaagta tctgggacta caggcataca 480
ccactatgcc cagctagtgt agtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg 540
tgttagtaga gacagggttt caocatgttg cccagggtgg tcttgaactc cagagctcag 600
gogatccacc tgccgaggcc tcccaaagt gctgggattac aggcagagc cacagcgct 660
ggccaatctt ttagggataa ttttagaaca gtatacagat attgagccaa gactcaaaag 720
agctgggttg caattctggt tgtgccattt atcagttgtg tgaggtggga caagtctctt 780
tttctcccta gctttctctt tctcatttta taaaataaag aaatgagaat gatagttgta 840
ttaatttctg aggactgcca gaacaaatta ctacaaactg ggtggcttaa aacaacaaac 900
atattattct acatagttca ggaggctagc agtttgaaat caagttcttg acaaactccc 960
ctagagtcta aagtctctag agaaggattc ctcttgcct ct 1002

```

<210> 204
<211> 971
<212> DNA
<213> homo sapiens

```

<400> 204
gagcaagcac tgcagccatc ctcttttatt tccctcaagg caatatccaa ggattaaaaa 60
gtcagagccg tctgcagatt cctctctctt accttgccct gcactttttg tgcccttctt 120
cttccccctc tccagcccca aacctctctc ctgatccacg gtactcctcc tgggatgtcc 180
actggggtcg atcctcccc attctcccc tgagttccct gctgttaatc tgtctccagc 240
aaaattaacc tagcctatgt cccatgcct ctggactctg gctgctctgc aatcactctt 300
aaaaatccgg tttctcctta ggcaatcatt ttgttttgat tttatgtgta aaaaaacctg 360
agtaaatatt tttttttttt gagatggagt cttgctctgt tgctcaggct agagtacagt 420
ggcatgattt ctgctcactg caacctccgc ctcccggtt caagcgattc tctgctctca 480
gcctctctga gtagctggga ctacaggtgc ccaccaccat gcctggctaa tttttgtatt 540
tttggtagag acagggtttc atcatactgg ccaggctggg ctcaaactcc tgaccttgtg 600
atccacgcac ttcggcctcc caaagtaatc actgctggga ttacagaagt gagccaccgt 660
gcctggccaa acctaaagta atgtttttaa attatactac taacatagca tacaggcttt 720
agactgttgg ttgcttttaa gtttgcttac tttaaaagct agagagaaga tgggtgagg 780
gatcttgtct ccttcagtat tcaactctgag ccatgcctcc tgagggaagt tgctttaggg 840

```

180/203

```

gaggcattgc tatgttatac actctacgat gcaccagccc ttgcctcaga aggcaaggtt 900
tgaaccccaa cactgtcttt tgcaaactgt taccttagga aatagatttt atctccttaa 960
ctcacttttt a                                     971

```

```

<210> 205
<211> 974
<212> DNA
<213> homo sapiens

```

```

<400> 205
gttcaagcga ttctcctgcc tcagcctctt gagtagctgg gactacaggt gccaccacc 60
atgcctggct aatttttgta tttttggtag agacagggtt tcatcatact ggccaggctg 120
gtctcaaact cctgaccttg tgatccacgc acttcggcct cccaaagtaa tcaactgctg 180
gattacagaa gtgagccacc gtgcctggcc aaacctaagt aaatgtttta aaattatact 240
actaacatag catacaggct ttagactggt ggttgctttt aagtttgctt actttaaaag 300
ctagagagaa gatggttgag gtgatcttgt ctccctcagt attcactctg agccatgcct 360
cctgaggaag tttgcttttag gggaggcatt gctatgttat acactctacg atgcaccagc 420
ccttgccctca gaaggcaagg tttgaacccc aacactgtct tttgcaaact gttaccttag 480
agaaatagat tttatctcct taactcactt tttacatttg caaaatgggt aaattgtgac 540
tacctcacat ggatgtcatg agatgaaatg taagaatgtg tgtccctggc ataatagtaac 600
cactttcgcc aaagactgag ttatccaact acagacagag aacagctggg ggcctaatac 660
aaggagagata caaaataaca atgccaaagac tggaaaagga agttcatctt aggatttcca 720
agagaaaaag aaatatgact gtattataat aggtatatatt attaatgctct taccatgtgc 780
caagcaaagt tctttatata catgatatac ttcatatata ttatttcatt tagtccatcat 840
ggctaccagg tgagcaccat tattttccca ttttacagat gaggcacaga gaagttaagc 900
cacttaccta ggaagggcag tcctagttaa gaagctggga ttcaaatacca agaggctgga 960
ttccagacct cagg                                     974

```

```

<210> 206
<211> 1002
<212> DNA
<213> homo sapiens

```

```

<400> 206
ttataatagg tatatttatt aagctcttac catgtgccaa gcaaagttct ttatatacat 60
gatatacttc atatacatta ttccatttag tcctcatggc taccagggtga gcaccattat 120
tttccatttt tacagatgag gcacagagaa gttaagccac ttacctagga agggcagctc 180
tagttaagaa gctgggattc aaatccaaga ggctggattc cagacctcag gctctattat 240
gagaagtacc taaatagaga ttggtttaac caaagcctga gtcccaacta agggcaagac 300
tgtgacacag aggtcactaa tcagaatgaa agattgagcc agagttaggt tgttggaatg 360
tattttggta catttagggt gttttaagta tatcaatctc cattccactc aatgggttgag 420
ttcagtttca agttttccaa atgctttatg ggaaagtcac atttttctcc cattgcagca 480
gggatgccag cgcagccatg ctttctcaac caccaagtag aagcaaagcc aaactgaccc 540
aagaagatga acagagggaa tccaggaggt tccaacttgg gttcacagct gcaattctca 600
aaggatggac taagccatgt caccctccca gataacacag tcatattaat agtgaccttt 660
tggaggcctc cctaaacagc aggtgaagtc ccāaaatcat tagattattc ctggcctcaa 720
ttgtggccca gagggagagc cctaagattt ttccatggga acaaagatct aaattctggg 780
actatctggg ccatgtccac cctgcaccat ttactacaaa atgggctgat cctatggaag 840
cacactacct gtgttggtgt catatagatc atcaacctggc ttctccaggg ctaaccagtt 900
agcatggaaa tgggacaccc aagaacaaga ggatagaaag aagggaaggg tggaaagaag 960
gaaggaagaa aggggtgggag ggagggaaga gtggtagttt tg                                     1002

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```

<210> 207
<211> 915
<212> DNA
<213> homo sapiens

```


181/203

<400> 207

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tccctggcctc aattgtggcc cagagggaga gccctaagat ttttccatgg gaacaaagat 60
ctaaattctg ggactatctg ggccatgtcc accctgcacc atttactaca aaatgggctg 120
atcctatgga agcacactac ctgtgtttgtg gtcatataga tcatcacctg gcttctccag 180
ggctaaccag ttagcatgga aatgggacac ccaagaacaa gaggatagaa agaaggggaag 240
ggtggaaaga aggaaggaag aaaggggtggg agggagggaa gagtggtagt tttggaagga 300
aggagggaaat cagagctaaa gataatacat gatatgagtc agtggttcaat gtccctgaag 360
attaggggaa tcaagctttg cttccaggag aattaacaca ggagagccaa cagagatgtg 420
gaaattttagg aagtcagagg agacattctt tcatctcatt cattcgttca ttcattcact 480
tgctcatttt tacatgaatt gactctagaa cagatgctgg agatacaaag atgcatgaga 540
cttgccccc tctcaacag tcattcacag tctaatacaga aagagagcct tgcatttgga 600
atacaatatg gagtaataat acctctgtgt tcagcctgca caaaatactc tgtatgcatg 660
gtcatatgtc ccttgaaaca actttatgag gaagatacta ctatagtctc catttgacag 720
ataaggaaac tgaggcttag ggaggtcaaa taacttgccc aagtaaaaca actagtaagt 780
agctgaacca caaacagag attcatgcag aaagctgtac aacagaagaa accaggacta 840
catctgcctc aaaggaacca gagaaggctt ccaaagaagg cagcatttta aatgggtttt 900
gaaggatgta tagca 915

```

<210> 208

<211> 864

<212> DNA

<213> homo sapiens

<400> 208

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cccagccctc aggcacatca gtgcoctctc taggctctct ctcaaccaact ttagaattga 60
attacatcag ttgtttccag atgggtgatct gcagaattcc tttaaagacc acctgtggga 120
tttgagggag gaaaactaca ctctcccaat ctccctcttt aaccaagca tctgattgct 180
ttcatctgtt ttacatactt agcttctgtg cacaacttcc tttgattaaa gagttccttg 240
cctttatagt agtggatgat atctaaggat gatgtaaaat actgggtgtt agctaagggt 300
ttaccaaact taaagccttt atgcttcata attccacttt attgatgtag gaagacaaat 360
gatagactta ctttcaagggt ggatagaagg gatgcgacct agccaaggct acagcatttc 420
tctagtggca ccactgccat gacaaccatc agtttgaatg ccttatgggt gcatcctatg 480
ggttatgcac tggccccaag ccataacccc taggactcta gagccagcag caaacacaaa 540
acactgaatt aataatgagt gagatctctg ttcccatagc tgccacaggc taaataagtt 600
gaggggggtat tgtaaaaccc aagatgagat cactgagcct ctggtatcaa aaagggtgat 660
ttcacagaat gtttagttgg acgagagctt gaagagcatg gaaacgatct ggtatcattc 720
tggtcaaaga ccagaattta gaccccagtt ctgccatttg ctgactaatg actttgggca 780
aaatacttaa ctttctctgag agtttagtttc ctcatctata aagtggggta atataacca 840
ccttgcaagg tactggtagg atta 864

```

<210> 209

<211> 946

<212> DNA

<213> homo sapiens

<400> 209

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agcagggtcc cctgagcgtt cctctcagc tcccaacact tccctccagg caccagtatg 60
cagggaagg tccctggagg ggcgccgaaa caccactcga gatcctcact ctgagggaatt 120
caatatagaa aacacattaa gaacctgttta catggaactg ctgtttataa ttattgttcc 180
ctatgggata ttccccactg cttcctccaa tctcttttta aactgotcaa ctaatagagt 240
tttcttggtt tccccaggga gacattcaca gatgctaata gagacataat tcaaaaattg 300
cttgatatac atgccctcaa ttttcccaa gaaccacctc agtaaagagc cccagacatg 360
caacacattc attggccaga tgcaatttaa catgcgtggg attaaatata caggctacta 420
cagccagggt gtcatacagc agcagcaggc atggcatttt atcctaagggt accaccatcg 480
gccaaatgca acaggaaaga agcaggctgc tgggtgggac ccctggaaga tcccctcctc 540
tgtaatttcc actgcaagct tttccaggc cttttcaggc aaagcgggga gttttgaaaa 600
taaatcccc aggcttggag aagcaaagaa tcaatgctaa gcagctccgg aaataatagc 660

```

ttccatctct	ctgatata	aagaggataa	ggaaggcaga	aagaaggggc	atgatattat	720
gagattgcaa	caatacattg	caacattaca	ttaaagaatt	acagaaagca	agatctagct	780
tcagatgcca	gttcatgcac	ttactccctg	tgtgaccctg	ggaatcactt	aagctgtctg	840
agacttagct	tgtctaata	caaactgggg	atactaata	cacctcccag	gattgttggg	900
aaggtaaagt	gagattgaca	aatgtgaaca	cacttagtat	gtcttt		946

<210> 210
 <211> 877
 <212> DNA
 <213> homo sapiens

<400> 210						
tgtttacatg	gaactgctgt	ttataattat	tgttccctat	gggatattcc	ccactgcttc	60
ctccaatcct	cttttaaaact	gtcctaactaa	tagagttttc	ctggcttccc	caggagagaca	120
ttcacagatg	ctaataagaga	cataattcaa	aaattgcttg	atatacatgc	cctcaatttt	180
ccccagaac	cacctaaagta	aagagcccca	gacatgcaac	acattcattg	gccagatgca	240
atttaacatg	cgtgggatta	aatatacagg	ctactacagc	cagggtgtca	tcaagcagca	300
gcaggcatgg	cattttatcc	taaggtaacca	ccacggccaa	atgcaacagg	aaagaagcag	360
gctgctgggt	gggacccctg	gaagatcccc	tcctctgtaa	tttccactgc	aagcttttcc	420
caggcctttt	ctaggcaaag	cggggagttt	tgaataataa	ttccccaggc	ttggagaagc	480
aaagaatcaa	tgctaagcag	ctccggaaat	aatagcttcc	atctctctga	tatataaaga	540
ggataaggaa	ggcagaaaga	aggggcatga	tattatgaga	ttgcaacaat	acattgcaac	600
attacattaa	agaattacag	aaagcaagat	ctagcttcag	atgccagttc	atgcacttac	660
tcctgtgtg	accctgggaa	tcacttaagc	tgtctgagac	ttagcttgtc	taatgacaaa	720
ctggggatac	taatatcacc	tcccaggatt	gttgggaagg	taaatggaga	ttgacaaatg	780
tgaacacact	tagtatgtct	ttacatagta	ggtattcaat	aaactcttct	atatatcttc	840
tctttctgaa	aatctgaata	tggggagcat	ggatatg			877

<210> 211
 <211> 914
 <212> DNA
 <213> homo sapiens

<400> 211						
gtccccacca	ctccttttta	ttgcagaggg	aattgacatt	cagggaatgg	aaatgcccg	60
cccagaattg	gggatgtggt	ctgggaaccc	aggtctccca	tcccactccc	tcgccccttc	120
acccctctcc	gctggctcag	gttctttgtc	ctctgctggc	atccctgggg	acgggcccag	180
ccccatcccc	cgcacacaca	cacattgtcc	cttcaagatg	gagccaggct	gacaccacgt	240
agaatgacct	ggaagccccc	actcagtcta	ccagtcctcc	ctcctcacac	aggaatagat	300
gggaggga	tgaaataagc	tgccatctgc	tgtgcatcct	ctgtgtgcca	tgctctgggt	360
acccatctaa	tcctcgtgaa	gacctgaga	agtgagtgtt	cttcacagac	taggcaacac	420
cagaaggcag	gatgaagaac	gtacagaagc	tacagagtgc	acaggtgaca	ggtatgagag	480
ccaagccatt	caaactccct	gggtatagga	cccagctctt	cccacgtctc	tgcttttacc	540
gaatcaaaca	cctgagcacg	gaagaccctc	catcaacatg	aactgctttg	aattgacatg	600
aacaagcttc	aatcaaacta	taaatgctga	aatttttcaa	ttatagaaag	tatttgaaag	660
atcccataaa	ttccctgtgc	atatcacgtg	agctgcattt	actgcagcag	acacttttta	720
tctcgggctt	ggaggaagga	ttagcaagaa	gaaagtggag	ggggtctgag	gaagggctgg	780
cagcctagag	gaggacagca	gcaagaagca	ggctggaggc	agttctgtgc	tgccggcctt	840
catgggtgtg	gcctttggac	agcaccttag	caggaaatgtg	gtggagagca	gccccattca	900
ctccagagga	gagc					914

<210> 212
 <211> 964
 <212> DNA
 <213> homo sapiens

<400> 212

183/203

```

aagaccctga gaagtgagtg ttcttcacag actaggcaac accagaaggc aggtgaagaa 60
cgtacagaag ctacagagtg cacagggtgac aggtatgaga gccaaagccat tcaaactccc 120
tgggtatagg acccagctct tcccacgtct ctgcctttac cgaatcaaac acctgagcac 180
ggaagaccct ccatcaacat gaactgcttt gaattgacat gaacaagctt caatcaaact 240
ataaatgctg aaattttttca attatagaaa gtatttgaaa gatcccataa attcccctgt 300
catatcacgt gagctgcatt tactgcagca gacacttttt atctcgggct tggaggaagg 360
attagcaaga agaaagtgga gggggtctga ggaagggctg gcagcctaga ggaggacagc 420
agcaagaagc aggctggagg cagttctgtg ctgccggcct tcatgggtgt ggcctttgga 480
cagcagcctt agcaggaatg tggtagagag cagccccatt cactccagag gagagcctca 540
aactcttcag gcagatctag cctaggtaga atcttggcct ggccccctccg ggatgacagg 600
tgccattgcc caagaatggg gaaaaggctg aagtgtcca gccaaagacc ccaatttatc 660
ttcaggacaa ttttactgga aaaccttgcc tcaccactgc ccactttttc agaagtaatt 720
agaatgctaa tctataagaa agatgactat taaaaataaa ttaataatag ataatacatt 780
ttggcttaca attttgaata atatagccat cccatcttaa agtaaaaaatt catatatatt 840
taataagcct gagacatgtt ttccaatgaa ccacagatgg ttcatTTTTA ttatcctata 900
aagagacatt atgggcaagt gtttttttaa atggtaaaaa agaacccttag agcagctctc 960
tttt

```

<210> 213
 <211> 876
 <212> DNA
 <213> homo sapiens

```

<400> 213
ggcaagtgtt ttttaaaatg gtaaaacaga accttagagc agctctcttt tgaagatctc 60
taagcacttt ctaagcatca ggacccccct ctgtcatcac agagactgaa atgaggagat 120
ggctctctgt accccctcac tcaccagtga gcccagacc ttcatccctg atcagatgga 180
agcagtgtgg catgattaca gttcatatit caactctgcc actcaatgac taatagccaa 240
gcactaataa tgcagaaaat gtaaatTTAA aaaataatct tctgagatt gggtatgaaa 300
tgcactcaac acagcaccat ccacagagag gttctTTTTA attgctcttt tctttcctct 360
cgacacccag aatcacaaaag catgcctgaa agcgtcacac atatatgtct gtgaccataa 420
catggcattg cacatgcaaa ggaaataaag taggtgttac ccatgtgaca aagggtccatg 480
agctctgtcc gcaaaaagct gttgagttta aagaacaaat aattctgaaa aatcttccag 540
gagatgaaat ttgtagaact caagggcagt aaactagctg ctttccaagg acttgtcata 600
gctttattga cttacaatag ccaaagataa gtcagtatta atcaaaccce ttctctagaa 660
aaacctcatc atcactgggg ccagggcaga gaagtgtgac acagctctct ccagcttccc 720
cacttcacag catggttcca ccattccacc aattgctaaa gcctggatag tcttctctgt 780
cacctccoga tcccttctct taacacccat ccccgggcca cccaacatca gcaagtctgg 840
tggtttctct ctgtcacaga gattcaagat cttccc
876

```

<210> 214
 <211> 910
 <212> DNA
 <213> homo sapiens

```

<400> 214
tcgtagtggt catagactct ccttcccttc taacttaaaa gaggtccctt ctggtttttc 60
cttcatacac ttccctcact cttttccttc actgcactaa agatgatttc taattgcata 120
gtcattgatg ccagtatttg tttatttgtt cttcctgtct gaacagagga tgggcctgac 180
ttatttggga ccatgttgct gatgcctgga cctaagcctg gcacagagta ggagctcaac 240
aaatttgTTA aatgagtggc tgaatggcca tactctcaaa ggaccacag tctaggagag 300
acagaagaat ctttgtcttt ttgtcttgca gtgggatgga agctgcaggg aggggtcttg 360
tcacattgat actgtctggg gaagacagaa aaacttcagt ttcagaggag gtagcccttg 420
aaacgaagat ttgagagagg gcagcacatt gtacaactcc atggggacca tgcacattgt 480
agtccagata aacagagccc cttggagata tgtgaggcat gggatagact cagagaaacc 540
caggaaataa ccccttcagg catctgacat gcaaagatgt ggaagtgtca accaggaagt 600
catgttgggg gaacagcaag tatttacaga aagtgactgt gtgtgtctgt gtaggagggg 660

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184/203

```

gactttgtat aggagagata aaacctgtga gctaatacaag gagaagatca taaaagacct 720
tcataaagag catggccttt ttcttgcaag cagtgaggag ccattgaagg ctttagcata 780
aggacagtca gatgtacttc cctagaatgc acatttcctt ctgctccaga acttctgcac 840
aggaggctcc taaaagctct ccccatcctc cctgtacacg tagaatctgc ctctgtctct 900
ctttctctct 910

```

<210> 215
 <211> 877
 <212> DNA
 <213> homo sapiens

```

<400> 215
cacttccctc actcttttcc ttcaactgcac taaagatgat ttctaattgc atagtcattg 60
atgccagtat ttgtttattg tgtcattcct gctgaacaga ggatgggctt gacttatttg 120
ggaccatggt gctgatgcct ggacctaaagc ctggcacaga gtaggagctc aacaaatttg 180
ttaaatgagt ggctgaatgg ccatactctc aaaggaccca cagtctagga gagacagaag 240
aatctttgtc tttttgtctt gcagtgggat ggaagctgca gggaggggtc ttgtcacatt 300
gatactgtct ggggaagaca gaaaaacttc agtttcagag gaggtagccc ttgaaacgag 360
atltgagaga gggcagcaca ttgtacaact ccattggcac catgcacatt gtagtccaga 420
taaacagagc cccttgagga gtatgtgagg catgggatag actcagagaa acccaggaaa 480
taacccttcc aggcattctga catgcaaaga tgtggaagtg tcaaccagga agtcatgttg 540
ggggaacagc aagtattttac agaaagtgc tgtgtgtgtc tgtgtaggag ggtgactttg 600
tataggagag ataaaacctg tgagctaate aaggagaaga tcataaaaga ccttcataaa 660
gagcatggcc tttttcctgc aagcagtgcg gagccattga aggccttagc ataaggagag 720
tcagatgtac ttccctagaa tgcacatttc cttctgctcc agaacttctg cacaggaggc 780
tctaaaagc tctcccatc ctccctgtac acgtagaatc tgccctctgc tctctttctc 840
tctctctctc ctctccatc tctctctct cctctctc 877

```

<210> 216
 <211> 902
 <212> DNA
 <213> homo sapiens

```

<400> 216
gctccagaac ttctgcacag gaggtcctta aaagctctcc ccattcctcc tgtacacgta 60
gaatctgcct ctgtctctct ttctctctcc tctctctct ccattcctcc ctctctctcc 120
tctccctctc tctogctgtc tcacacacac atacacacac actccttctt tctatcttag 180
tcagattcca ctcttggga ttccaggccc accgtcactc ctcagggaag cctgccctga 240
atgcctgcac tacaccaggg cccctttccc ctgcccccat ccagagcac caaatagctt 300
tcccttgtag cacttctcac agctgtcatt ttatgtttgt gtctgtgatt cttagggtta 360
gtccctcatg caccaaatca taagatctgg gaacaaggac cacacctgtc ctgcttcac 420
actgtaatca tcacactgcc tgccaaagtg ccttgccatc attagatact tagtagttat 480
gtgttccatg aatgactctt taagagatct tctagctgtt cttgcaaaga acccattggg 540
aaggttgaac ctacaggctg atactttgca ctagtctcag gaagagatgg tgagtaacatg 600
aaattgagtc cccagagggt taatgccag tgcccagct aggaacagtc caaggaggca 660
atltgaaccc catctgtctg gctgcagagc ctagccctct aatgcattca ggggtcctag 720
ctcctcgagg atgccactgt gccgtgaact tctttctgac cctcatggct cccagcacag 780
catccacact cagaagtgc agatgaatgt ttgcagataa tgaacataaa gctctcagga 840
accctcatct cctgagaatc tgctttggcc cccacagcag gtctgggtgt ggaccttccc 900
ca 902

```

<210> 217
 <211> 1002
 <212> DNA
 <213> homo sapiens

<400> 217

185/203

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gtggcaaagt tgggatctta acccagttct atgtggctat aaagttcatg gaatagaatg 60
ctgcagttaa gaacatgggc tttggcatca agcagacctg tatttgagcc ccacctctgc 120
tgtttattaa ctgtggccct gggcagatga ccttacatcc ttaagtctct agttctttgt 180
ctttaaaagg gtggcagaat gtacctcact ggtttttaga aggtcacatg agatagtgc 240
catgaagccc taggcatggg aaaattcttc taaaatgtca gctgccattc tgatcactgc 300
aagaccccca cccccaatac tcccaattgt accaccccac cccactcacc agtgtctcag 360
aaatgcctcc tccagaagga aggcattcctg tctaaccac tgcttctagc caagctgtct 420
ttcttcagaa ggtagaaaaa gattgttagt cattgtttta tctttattga gtatataccg 480
ccacaccaat tgcactgcc cttcattatc tcatTTaaat ctgacaagag ccttgtaaag 540
tagggattat tcccaccatt tcccagatgt tgaaactgaa attgataaac acgacatgtt 600
gccatggcta catgaagatc tccaagccgg aggatctcca cctcacctg cctagcttcc 660
cagacctctc tgcagaaaag ggaactgacc ccaagacagc cctggcctct gggctccacc 720
ccttccacat ccatcccagg gccgtgagg actgaagagt tctccacgtt tgccctttaa 780
agtgaactta aaataatctt tatgaatttc ttcataatac aaatttgtac ttactcattg 840
cagcaaatTT agaaaataca cataagcaaa aaagaacgta acagccatcc ataaccctaa 900
ctctcagaga tcaccactat taaaatgttt attatctaag agagagatga tatagacaaa 960
gatgagacag attgacacag agaagatggg tacatgatag at 1002

```

<210> 218
 <211> 1002
 <212> DNA
 <213> homo sapiens

```

<400> 218
tgctcaactg taatcaaaca ttatttttaa aaaatcattc cagcctggga aacagtgaga 60
aaccocatct tacaaaaataa aaaataaaaa ttagcttggc attgtggcat ctgcccgagg 120
tccttgctac tcaggagggt gagatgaaag gatcacttga gcctgggagg ttggggctgt 180
ggtaagccgt gattgcccc a ttgcaactca ttctaggcaa cagagtgaga cctgtctca 240
aaaaaaatat tattcatTTa atatctgttg ccaccacagg actgatccct ctgtgagggc 300
agagattggt catgcatgga attgtgattt ataagcactg gctctggagc caggttgcct 360
gagcacggag ccagctgtgc cctgcgggac acctgtggca cacttcactc ctgggacacc 420
tgggcacagc acacaataga aatgttcaca ttttactagg caatgccagt cacatagtcc 480
tacctaattt caaaagggt a agaaggta cccaacagc atcagggaag aggaggacca 540
gaaattgttg gtgacaagca caaatgacca cccaatata atattttgtt tggaaggcat 600
tttattccac aaaaacaaca ttacaataaa cacaacaaca aaacactggg tgcagtagaa 660
ccaactttcc agacctatct gcacagcaca accattatcc cactcaaaat gtcatgtttt 720
taccacaaac attaaaattt taaaagcaat tcaaaccat agcttaaaaa atgttccaac 780
cagtaataaa aggaaaagtg tgccctctcc tcccaacttc cctaccccac aatcgcaaga 840
tattatcctt ataggcgaaa agggtttcag gatttgagat gcaggctggg aggtctgaga 900
agacttccta tagaagacat gacttcaaac tctttcttgt atgtgagatt taattttcaa 960
agactcctct gatccaactt aagctttatg gtaaatcacc tt 1002

```

<210> 219
 <211> 1002
 <212> DNA
 <213> homo sapiens

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<400> 219
atatgccagc gctctatctg caggggttct tttgatagca gcagactgag agatgatgtt 60
actgtccctt ttttctgtt gttggcaact gagactcaga ggatggaagt gacttgctca 120
gggccaccac ctcttcagct gtggagctgc gacaggagcc tttgtttgac ttcaaagctc 180
accatcactc ctctctcact gatgctcaag tgggctatca cctcgccctt cctgagcctt 240
ccttcgctat cctaaaaagc gcctcccgaa aatcaccact aaagaactta ttcagtgaac 300
caaacaccag cgggtccctt aaaaacctat ggaaataaaa attaaaaata aaaacagtgc 360
ctcccatgac ccatgtctct ccagtcacct aactctgctc tatttccatt cacagctcca 420
tccccacctt tatgtctttt gttcactgct ttatccccag tgccatagaag agtgcttggc 480
acctagtaga cactcagtaa cgtatttgtc gaatgagtta ataaggttgt gaaaagaacg 540

```

186/203

```

ttagattact ggaaggattc atctgagttt aattctgcta tgctgggaat ccagtgtgcg 600
gccttggatg aagccagttc cctccctggg cccagtagc cacatctgta catttagagg 660
gcaggagaaa agccacacgc tctgtgactt atacaacttg ttgccagag tggaggctgc 720
tttgatgctc agaaaaaaga aacaaacatg gaaatgctaa atgggtggca gagagcttga 780
gggaggaagg agatggggag ggtactcttg aaactgtttg gtgtcttccc tcctgcccc 840
tcagtaccaa ttgtcaagta cagaaagtga aggagacttg tattagtga atttggtccc 900
tgacttgtaa tagagacaca attacaaaga cacaagagtg ggcccagcag agacccttag 960
ggtggtccct tgaggttcca aagcatctgc ccatcaagca ga 1002

```

<210> 220
 <211> 1002
 <212> DNA
 <213> homo sapiens

```

<400> 220
caccagcggt tcccctaaaa acctatggaa ataaaaatta aaaataaaaa cagtgcctcc 60
catgacccat gtctctccag tcccataact ctgctctatt tccattcaca gctccatccc 120
cacctttatg tcttttgttc actgctttat cccagtgcc tagaagagtg cttggcacct 180
agtagacact cagtaagtat ttgtcgaatg agttaataag gttgtgaaaa gaacgttaga 240
ttactggaag gattcatctg agtttaattc tgctatgctg ggaatccagt gtgcggcctt 300
ggatgaagcc agttccctcc ctgggccccca gtagccacat ctgtacattt agagggcagg 360
agaaaagcca cacgctctgt gacttataca acttgttgcc cagagtggag gctgctttga 420
tgctcagaaa aaagaaacaa acatggaaat gctaaatggg tggcagagag cttgagggag 480
gaaggagatg gggagggtag ctcttgaaac tgtttggtgt ctccctcct gccccctcag 540
taccaattgt caagtacaga aagtgaagga gacttgattt agtggaattt ggtccctgac 600
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gtcccttgag gttccaaagc atctgcccac caagcagatg atgtgattag tctctgtgac 720
cccaaggatg cctcctgaaa ttgctgattc aatttctcct aataaaatag gaacaataat 780
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agtacatgtc acagtgtctt gcaaataaggc agtgctcaga agtgctacct tttctctttc 900
ttctctgagc ctccgtcttc tcttcggtaa aatgagaata atattatgca tacctcacag 960
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<210> 221
 <211> 1002
 <212> DNA
 <213> homo sapiens

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<400> 221
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tgtctctgac aataaatagc agaaaaagga aatcttctta tactgaagag aaacacaatt 180
aattaactag atccatcagg aaaggtacaa tcatgattga gacagtgttt aacagatgtg 240
actattggat tctgttgttg agaatgaccc ttaaaatcac agtcaaaata tacgacaaga 300
tggaataaac atttttgagc acctactatg catgtagagc atcttacata ccttatctca 360
cttagattta cagctgcaag gtgggtatga ttctagcttg aattagtcta ataaccatat 420
acctcctagg ggcagtgaga tgattagatc aattctaaaa ctattacat gctctctgag 480
ctcaccaaga caggcagtta agtacaagga tacattaata ccgaatccag caaaagctca 540
catggccagc tccattatg ttccattttg tgattattct gtatcaagca cagaaatgta 600
tgttcacacg aacaacaaag aaggggttta ttagtggtga ttacagggcc taagcctacc 660
ctctgaaact ggttttggag tctttagcac gcttgtttgg gacagttaaa catgtgccag 720
ctattctaaa acagttagcag taatgtgata gagctgggtc ataccgtgct tcccaaagta 780
tgatcacttc atttcaacaa cttcacacta acagcctgaa ctgggctgtg aagggaatat 840
ttagaccaag gaaactggaa aactgtatca atcaggcttt tccacctcc ccaagagcca 900
gttgctcagat atctaccagc ctaccaacgc tagctctcta atcagaaacc atcacttagc 960
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<210> 222
 <211> 1002
 <212> DNA
 <213> homo sapiens

<400> 222
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 agatcaattc taaaactatt accatgctct ctgagctcac caagacaggc agttaatata 180
 aggatacatt aataccgaat ccagcaaaaag ctacatggc cagcttccat tatgttccta 240
 tttgtgatta ttctgtatca agcacagaaa tgtatgttca cacgaacaac aaagaagggg 300
 tttatttagtg tggattacag ggcctaagcc taccctctga aactgggtttt ggagtcctta 360
 gcacgcttgt ttgggacagt taaacatgtg ccagctattc taaaacagta gcagtaatgt 420
 gatagagctg ggtcataccg tgotcccaa agtatgatca cttcatttca acaacttcac 480
 actaacagcc tgaactgggc ctgtgaaggg aatattttaga ccaaggaaac tggaaaactg 540
 tatcaatcag gcttttccac cctcccaag agccagttgt cagatatcta ccagcctacc 600
 aacgctagct ctctaatacag aaaccatcac ttagcaagtt cccaaattat ctgcagagca 660
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 ctggacccag tgagtttcca tcagtggaga aattctgtgc taacttgaga taatactatt 780
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 atcccgcaga aatattgtag acccactcac cctaggcaac at 1002

<210> 223
 <211> 1002
 <212> DNA
 <213> homo sapiens

<400> 223
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 tatctccatg tactggaact tcagggtggg gtccagctgg gttcaaagga gaaacagtgg 180
 gaagtttctc cactgccacc tgaattagat gagaaagagt tgtctactga aatacactag 240
 ctgggtggcag gattgggacg tcatttgact aattgcctcc tagagctgca gagactgctg 300
 gaactaccta agtaaatcat caaaaaaaaaa aaaaaaaaaa atcatcccag ggcacttttt 360
 ccagacaaaa aggtccactt aaaacatcct ctagaatctt gtgcctgaag ctgagctgct 420
 gcaatgaaac tgacatttct gccttgacgc ctggccatgg gcttagctgg actaaaatgc 480
 tgctgcagtg gtgagggcac agtgagagtc cctaattgtac atggccttgc tccttgcct 540
 gacacatctt ttagggtctg tgctttctct agtgctggaa tctagataat tcctttccca 600
 gccgtttgtt tcttcaatct tggaaaatat ctggatgaat gtaacactgt cacacacaaa 660
 cagaattatg acttacgtca cattctatgt cgtgattttg tggactttta ataattgcat 720
 tacatttgtg accattaatt tccaccatcg ccctgctcct gagaatctgt aaggggacatt 780
 tgacactcct ctccccaccc acctcaacat ttgtgctgac ctgaagggtca cattaaaaac 840
 ataccattt ggagagaaaag atctgtctac tgaaatacac taaatattga agaatttcca 900
 agtcatttga tcttgaaaac tccatctaata ggaagcagaa acactcaaag gttttttttt 960
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<210> 224
 <211> 978
 <212> DNA
 <213> homo sapiens

<400> 224
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 ttctctctc ctgcacacag ggaacagggc cattctcctt cctttactgg gactacctgg 120
 gcttcatcca ggggaatcccc aggtggcaac aggaggggtg tgaaaaccgc tgcccgtcac 180

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tagacaagtt  aaatcagtcg  agttcaatca  aaagtcatga  cccatgagcg  tcacaaccag  360
cacgagtcta  caaaggaata  cattaaaact  aagaccagag  cacagctcac  attagtgagg  420
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cacttagcca  atgatgaaaa  cgaaaaacaa  aacaaaagct  tggcagtcag  tatccaaata  720
tgcagatact  acagaatctg  tttgatgtag  aagttgatcc  tgctaccag  acagcaaaaca  780
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caataattac  ttagtgcat  ttttatgaag  gtgatgggaa  acaagtgtg  tttcttgagt  900
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caggaagatc  aaggaatt  978

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<210> 225
<211> 2002
<212> DNA
<213> homo sapiens

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<400> 225
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ttttctttct  ttctttttga  gaataagccc  ttccatttac  gtagaaatgc  ttcagcgttt  180
agataattgc  tacttatctt  gttagctaca  aacacaacca  taattaaagg  ctctgtaaga  240
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tttggggata  tgtacaagat  acaaacttaa  tttgatggat  tccttttgta  ttgggatcaa  480
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caaggaaggc  cagctctata  aagggggcat  gagagggaga  tcacctggct  agaaaggaag  1920
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cacagggtgg  cacatcctca  ag  2002

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<210> 226

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<211> 1002
 <212> DNA
 <213> homo sapiens

<400> 226
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 ttgctgtcta gaggtgttta tcattctgct tacttgctg tgtctctgga atattcagaa 180
 ggttccatgg gaaacaattt gaatatgcaa agaagttatt tttaaagcaa ggaaaatggt 240
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 caacgccgaa gccccctccc tgtgtggtgt ttgacgcaga ggctgacagg gcagggaagt 360
 ggggttcaag ataggaaggc cattggcagt gtgaccccag cccacagtcc tagatcccag 420
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 caaccattcc aatgccatct ctctctggtt ccagataaga ttgaagatga gctggagatg 540
 accatggttt gccatcggcc cgagggactg gagcagctcg agggccagac caacttcacc 600
 aagagggagc tgcaggtcct ttatcgaggc ttcaaaaatg taagaccctg gcacgctctg 660
 aaggcctggg gggggttccc acgtgaggct acactctccc caatgccaaag ggagctcata 720
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 gtaaacggcc aactgccag aaatttcaca ggggtggcaca tcctcaagga attcaccctg 900
 gccagggtc aagccttagc ccttaacata atcatacctt ccaacctggt ggtgccccca 960
 caataatggg atttggccct gctgacttat gctaaccagg ct 1002

<210> 227
 <211> 2002
 <212> DNA
 <213> homo sapiens

<400> 227
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 cagacacttt ctaaataact aatgcaatct tatattacat tatagtccat aaggagagaca 180
 tacttaaact actacttaca acaactgttt ttagagcctt tcaaattggtt tgtacaaagt 240
 agctcccatt taagatattt tcctagtatt taaggctatc tagtagacat tacaaaaaca 300
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 tctgctaaat catgctatcc attcctagtgt ggcaccaatg gtgagagttt actgtttctt 420
 taaataaatt tgtttccctt tgctgtctag aggtgtttat cattctgctt acttgcctgt 480
 gtctctggaa tattcagaag gttccatggg aaacaatttg aatatgcaaa gaagttattt 540
 ttaaagcaag gaaaatgttt tcatatggat ttattttgag cacttctgcc tttgcctcca 600
 ctgggaacat gtttctctcc aacgcogaag cccctccct gtgtggtgtt tgacgcagag 660
 gctgacaggg caggggaagtg ggggtcaaga taggaaggcc attggcagtg tgaccccgagc 720
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cattagggct	tctttccttc	gatggcagca	ttagcagtg	gcagccgagt	tggagaagga	1920
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<210> 228
 <211> 1002
 <212> DNA
 <213> homo sapiens

<400> 228						
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gggagttcct	tgtttagttg	ttactttaaa	tacattaatg	tgttcctgca	gtctcaggcc	180
agtttgagag	ctctcagata	caatcctgga	tattaattta	ttttttaagt	ttactctca	240
gagtgcacatc	ttattcccaa	atcctggagt	ggtgtggagt	ggggtgggct	acagcgacat	300
gcacctggtc	accctccctc	caggtgcagt	ctgtaggtag	agctgagctg	ggtcagttcc	360
aaactgacca	cagcctcaat	gttctccaaa	ctgctgaccc	acagggattc	cagcccctcc	420
tgggagttat	ctgacaggtg	ctgggatgcc	tcttctctcc	acactagcct	tgactgcaca	480
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gcactacttg	ggagaagtgg	aatgcacag	gtccctgtcc	ctggggatca	tgaggaaccc	960
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<210> 229
 <211> 2002
 <212> DNA
 <213> homo sapiens

<400> 229						
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gagtgcacca	gtggtgtggt	caacgaagac	acattcaagc	agatctatgc	tcagtttttc	1140
cctcatggag	gtgagctctga	ccttgaaatc	tatcttgccc	agctccctct	ctggtaagca	1200

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2002

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<210> 230
 <211> 1002
 <212> DNA
 <213> homo sapiens

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<400> 230
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atcaaaagct ctcagtcaga ccaaagacat gtttatccat ttgtaagcat ttcctaaaga 120
tggggaaaag cagcagcaac tttccctggc ctgcaggaaac tcagggactc aggggactaa 180
taacaacagt gtatgagctt ccgggcacac tgcttcccag tggcagcccc tgtacttagg 240
gctttgtatg tattaattca tttactccaa ttcccacaat aacctatag ggtagggttt 300
tattattgat taccttttta cagaagagga gagtaaggca aagagagata gagtagtttt 360
cccaagggtc aagagcacat aaatgataaa ggatggattt gaatgtaggc agaatgaccc 420
tcaatacaga ctgttccctac agtccacgtc ctcagccact agaccatacg gccactggga 480
tgatagacag accactgcag cgcattggata aggcaaaaac agggctggct gtgttgatct 540
gtgtctctca gagctccatt ctctctcaag ggggcacctt gcaaaaaaaa acaaaaaaat 600
ggggcagggg agggaaactga aggcaggagc tcttcacaga gcatagccac atcctccagg 660
cagacaagag gacgcaggag gcaccattct gtgagagtat cacagtctga cccaaagaca 720
cagcttcaca ctgtctgatg gcttgatggg taatgtcact ctgccttttc cccttctcag 780
gactttgtaa ccgctctgtc gattttattg agaggaaactg tccacgagaa actaagggtg 840
acattttaatt tgtatgacat caacaaggac ggatacataa acaaagaggt aagtgagctg 900
gggccagggg tgtgagaggg ctccagtga ggttaactaac ccaacagaaa acagccccag 960
gcatgaggat agcactgtct gaatgaggca ggctctgctt tg
1002

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<210> 231
 <211> 2002
 <212> DNA
 <213> homo sapiens

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<400> 231
tgtgccattc atacaccaac gactccatgc atagacaggc aggagaatgg ttttctcatg 60
atggctagag ggaggggcaa gggctcatct cactttttgc tagatctaac ttcacacca 120
aaccocaaag gttgagtcac tgggccccac tccataattt tctcctttcc atcacctag 180
catcactctc ctctctttct tgtcgaagcc ctgccttggt tggaagggtc tccctgtgtg 240
gaattcctgc ccccatcacc tggcctcctt ttctgccttg tagatgccag cacgtatgcc 300
cattacctct tcaatgcctt cgacaccact cagacaggct ccgtgaagtt cgaggtagc 360
tcatctgggg tccactctag gggctcctctg gttctgcac accctccccct ctaaattctca 420
aggcattggg ggaagggtctg gaccatcaaa agctctcagt cagaccaaag acatgtttat 480
ccatttgtaa gcatttccca aagatgggga aaagcagcag caactttccc tggcctgcag 540
gaactcaggg actcagggga ctaataacaa cagtgtatga gcttccgggc aactgtcttc 600
ccagtggcag cccctgtact tagggctttg tatgtattaa ttcatttact ccaattccca 660
caataaccct atagggtagg gttttattat tgattacott ttacagaag aggagagtaa 720

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ggcaaagaga gatagagtag ttttcccaag gtcaaagagc acataaatga taaaggatgg 780
atttgaatgt aggcagaatg accctcaata cagactgttc ctacagtcca cgtcctcagc 840
cactagacca tacggccact gggatgatag acagaccact gcagccatgg ataaggcaaa 900
aacagggctg gctgtgttga tctgtgtctc tcagagctcc attcttcctc aagggggcac 960
cttgcaaaaa aaaacaaaaa aatggggcag ggtaggggaa ctgaaggcag gagctcttca 1020
cagagcatag ccacatcctc caggcagaca agaggacgca ggaggcacca ttctgtgaga 1080
gtatcacagt ctgacccaaa gacacagctt cacactgtct gatggcttga tggttaatgt 1140
cactctgcct tttccccttc tcaggacttt gtaaccgctc tgtcgatttt attgagagga 1200
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ataaacaaag aggtaagtga gctggggcca ggggtgtgag agggctccag tgaaggtaac 1320
taaccaaca gaaaacagcc ccaggcatga ggatagcact gtctgaatga ggcaggctct 1380
gctttggggc taacagagct ggtccctggc aaaataaaga aggcctccct cattgcccta 1440
ccctgccctg ttccaagcg cccagaaagg attaaacaga ttcatctca ctgggtcacc 1500
tagattcagt agatattaca cagtggataa aaatgacttg tttcagtgtg aagagttact 1560
cttccctagg gaacctgcat ttgggaaggt taggagccac aagtcaaagc taaaagttga 1620
aatggtggaa ttgtaggcag cacctagaat agaaaagaaa gatttttaag gaagaggaaac 1680
ctacaattgg gtcataattg ccttaacta ttttgctat taatacaacc gccaaggggg 1740
taatggaagg tacagctgtc ttacagaaa ttatcacaaa taatttctga atcttactg 1800
ctttgcactt ttagaacctc agaggacatg tctctagcca gtgaaatacc ctcaggctca 1860
tctcaaaact cactttggta tccactgtat cctggtatct cagtgggaagc tggaaattgg 1920
catcctgtaa cactccactt gctgagctcc tgtgtgccag gcacgggtgcc tggaggtata 1980
gatatcagca ccaatcttca cc 2002

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<210> 232
<211> 1002
<212> DNA
<213> homo sapiens

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<400> 232
tagggctttg tatgtattaa ttcatttact ccaattccca caataaccct atagggtagg 60
gttttattat tgattacctt tttacagaag aggagagtaa ggcaaagaga gatagagtag 120
ttttcccaag gtcaaagagc acataaatga taaaggatgg atttgaatgt aggcagaatg 180
accctcaata cagactgttc ctacagtcca cgtcctcagc cactagacca tacggccact 240
gggatgatag acagaccact gcagccatgg ataaggcaaa aacagggctg gctgtgttga 300
tctgtgtctc tcagagctcc attcttcctc aagggggcac cttgcaaaaa aaaacaaaaa 360
aatggggcag ggtagggaac tgaaggcagg agctcttcac agagcatagc cacatcctcc 420
aggcagacaa gaggacgcag gaggcaccat tctgtgagag tatcacagtc tgacccaaag 480
acacagcttc aactgtctg attggcttga tggttaatgt cactctgcct tttccccttc 540
tcaggacttt gtaaccgctc tgtcgatttt attgagagga actgtccacg agaaactaag 600
gtggacattt aatttgtatg acatcaacaa ggacggatac ataaacaaag aggtaagtga 660
gctggggcca ggggtgtgag agggctccag tgaaggtaac taaccaca gaaaacagcc 720
ccaggcatga ggatagcact gtctgaatga ggcaggctct gctttggggc taacagagct 780
ggtccctggc aaaataaaga aggcctccct cattgcccta ccctgccctg ttccaagcg 840
cccagaaagg attaaacaga ttcattctca ctgggtcacc tagattcagt agatattaca 900
cagtggataa aaatgacttg tttcagtgtg aagagttact cttccctagg gaacctgcat 960
ttgggaaggt taggagccac aagtcaaagc taaaagttga aa 1002

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<210> 233
<211> 2002
<212> DNA
<213> homo sapiens

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<400> 233
atttcttaaa gtagataaat ttgactttat caaagttaaa aattttgtgc tttagaagac 60
acctttaaga aaatggaaat gcaagccatg gacttggaaa aaatgtttgc aaattatata 120
ccagatatat aaagatacca ggataccaaa ccaatatata gactggcatc caaatatata 180
aagggacatt tataatttaa tacaaagata aacaacttca tataaaatag gcaaaagatt 240

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tgatgagata	tttaagaaaa	gaagatatat	gaatggccag	taaacccatg	aaaggttgct	300
ctatatcact	ggtcttcaaa	gaaatgcaaa	ttataactat	aatgaaatac	aattgcacag	360
aatggccaca	attaaaaaga	ctgataatac	caagcattgg	caaagatgtg	gagcaataga	420
aactctcata	gatagctggc	agaaatgtaa	atggtacaaa	cacgttggga	aacatttttg	480
catctttgat	aaagctcagc	acacacttaa	catacaaccc	agaaatccca	ttccagtcag	540
gcatggtggc	ttacgcctat	aatcccagta	ctttgggagg	ctgaggcagg	cggatcactt	600
gagctcaggt	gttcaagacc	agactgggca	acatggcgag	acactgtctc	tactaaaaat	660
acaaaaaaaa	aaaaaaaaaa	agccagacat	ggtggttaagc	acctgtggtc	ccagctacta	720
gggaggctga	ggtgggagaa	ttgcttaacc	ctggggagtg	gaggttgag	tgagctgaga	780
ttgcaccact	gcactccagc	ctgggtgaca	gagcaagacc	ctgtctcaaa	aaaagaaaaa	840
aagaagaaga	aaagaagtcc	cactcctgga	tatttacccc	caaaagaaaa	atatgtaatt	900
ccataaagac	ttgtacaaag	atgttcatag	cagctttatt	catagtaatc	tcaaaactta	960
aatgacccaa	atgtctgtca	acaggacaat	gggtaaatac	attcatagtc	tgttcatcca	1020
atggaatatt	actcagcagt	aaaaaggaat	gttatagttg	catgcagcaa	tgtgtatgaa	1080
gctcataaac	ctcatgctga	gtaaatgaag	ccagacgcaa	atgagtttac	actgttttac	1140
tccattttaca	tgagatttta	gaaaatacaa	actaatctat	agtaacagaa	attagatctg	1200
tggttgcctg	gtgtcaaagc	ttgagaggca	ctcactgcga	agaagtgtga	agggatgtct	1260
tttggttgtg	aaaatgttct	atatcttgag	tgtggtggag	gttacatggg	tggtacatt	1320
tgtcaacatt	catcaaacag	tacacttaaa	atgggtgaat	ttgttataag	taaattatgc	1380
tccaataaat	ttgatattat	tgttgaaaaa	cttgggtgta	gggggaagtg	cctaaccaat	1440
agaagacact	caaaaaatgt	gttgaaggaa	aaaaatcctg	tgaaataaag	caggtaagag	1500
aaaataagaa	ctcaatatca	tccaaaatat	agattacaaa	tcctaaatga	gataatagga	1560
aattaatccc	agtgtctctg	ttaaaggctc	atacctgtaa	tcccaacact	ttgggagact	1620
gaggcaggag	gatgggttga	gcccaggagt	tcaagaccag	cctgggtcaac	atagggagag	1680
cctgtctctt	caaaacaaaa	atttaaaaat	tacctgggtg	tagtggcaog	tgctgtgct	1740
cccagctact	ccagaggctg	aggcaggagg	atagcttgag	cccaggagtt	caagcctgcc	1800
ctgagccata	atcactgcac	cacactccag	cctgggcaac	agaacaagac	ccttctcaa	1860
aaaagcaata	aaataaaata	aagaaatgca	catgactaac	atagggttta	ttccaggaat	1920
gcaggaatag	cccagtagca	gagaaagcct	attaaataat	ttatcacatt	aatatatcaa	1980
aagatcaaac	catttgatgc	ta				2002

<210> 234
 <211> 2002
 <212> DNA
 <213> homo sapiens

<400> 234						
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atctgtggtt	gcctggtgtc	aaagcttgag	aggcactcac	tgcaagaag	tgtgaaggga	120
tgtcttttgg	ttgtgaaaaat	gttctatatac	ttgagtgtgg	tggaagttac	atgggtggat	180
acattttgtca	acattcatca	aacagtacac	ttaaaatggg	tgaatttggt	ataagtaaat	240
tatgctccaa	taaatttgat	ttatttggtg	aaaaacttgg	tgtaaggggg	aagtgcctaa	300
ccaatagaag	acactcaaaa	aatgtgttga	aggaaaaaaa	tcctgtgaaa	taaagcagg	360
aagagaaaat	aagaactcaa	tatcatccaa	aatatagatt	acaaatccta	aatgagataa	420
taggaaatta	atcccagtg	tctgtttaaa	ggctcatacc	tgtaatccca	acactttggg	480
agactgaggc	aggaggatgg	gttgagccca	ggagtccaag	accagcctgg	tcaacatagg	540
gagagcctgt	ctcttcaaaa	caaaaattta	aaaattacct	gggtgtagt	gcacgtgcct	600
gtgtctccag	ctactccaga	ggctgaggca	ggagatagc	ttgagcccag	gagttcaagc	660
ctgccctgag	ccataatcac	tgaccacac	tcagcctgg	gcaacagaa	aagacccttc	720
ctcaaaaaag	caataaaata	aaataaagaa	atgcacatga	ctaacatagg	gtttattcca	780
ggaatgcagg	aatagcccag	tagcagagaa	agcctattaa	ataatttatc	acattaatat	840
atcaaaagat	caaaccattt	gatgctaaaa	tcacatttga	tataatttac	catttattca	900
taataatttt	caggattcaa	ttaattagga	ataaaatact	tcttcagcat	aatagaaaat	960
acccagcct	ggtacacagc	ttcatacttt	atggtaacac	agcggagatt	ctcactgaag	1020
aaaagatgag	gcaagaaaag	atgatgaaga	aaagatgagg	caagaaaaga	tgatgtctgc	1080
acactgtcag	acatcaccac	tgtttaacat	ttcctgaaag	ctcttcaaac	acagtgaaac	1140
agaaaaggaa	atgcgatcta	aataggaaaa	attacaacat	tccttgtaa	tgacatgatt	1200

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ttctatctga gaaaaaagac agcaagaaaa tcaacttaaa acaactagaa cttttaaaaa 1260
gctggcgaag tgactggtaa taaaatacat atgcaaaaag aaattgtgta gccaatatat 1320
cagttgtgac tagctagaaa attgtaatac aaatattctc attgtgatca caataaaatt 1380
taaagcacat gggcattttt aaatatccat aatttagatg aagagaaaga aaattttgat 1440
aagtagagaa acataccatc ttctgaaagg atgtatatta taaagatagc aatattataa 1500
tgacagcaat tcttctctaa tttaaatttat tttatttttga atcaaaatgg aagtgttatt 1560
tggaaggaa atttggcaca attgttataa agttacattg gaagattaat cagatgaaaa 1620
tagcaaagat aattttcaaa aagaagaaaa atggtgggat ttgttctacc agatactgaa 1680
atatattata aagctgaaac tattaaaata ttataatatc agagaaggaa caggtagatc 1740
aatggaacaa aatagaaatc ccaggtaaca ataccatctt ggttcataat aaagggagca 1800
tattgaatag agaggtaatg aatcattaaa tgattcttgg aaaactgggtt aactattttg 1860
gcaataagta agtaaattat cttactcggg accataaaca caaaatcact atagatatgt 1920
acagttgctt ttttaactaaa aaagaactaa aaatcatatg tgaatatctg atcaaagaat 1980
ggaaaaagca taaaatcaaa gt 2002

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<210> 235
 <211> 1002
 <212> DNA
 <213> homo sapiens

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<400> 235
gootgtagtc ccagctactt gagaggotga ggcgaggagga tcaattgaac ccgggaggtc 60
gaggctgcag tgacggggat tgtgccactg cactccagcc tgggtgacag agcaagaacc 120
tgtctcaaaa aaaaaaaaaa agaaaaaaga aaaaaagaat gagaaactca tacagattag 180
aagagactaa ggagacacaa caaataaatg caatgtagaa tcattgaagg gaaaaaata 240
ttagttgaaa agotgagatc ccgccactgc actccagcct gggccacaga gcgagactcc 300
gtctcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa gctgataaaa tttgaataag 360
ccctgtagtt tagttaataa tagtgaagcc atgttaattt cctgggtttg gtcattgtgc 420
tctggttatg caagttgtta acattagagg agactgagtg aaaggatatg atgaactctc 480
tgtactaatt ttgtaaattt ctctgtaagt ctaaaattat tcataatatg caaaaattaa 540
acaaaaata aaataaata agcacatgga atgagactgt cccctgggtc tctgtagaaa 600
ccaggtcaaa gatcccaaat gctcttttac cccattctg agttgggcca gaatggtcag 660
aataatggtt cccaatgtac cttgataaac acggaactc tcaggacoga gtcctaaggt 720
tctctgattc aataggtttg gagtggactt gagaactgat ctttttaata agggcctcag 780
tctgtggaac tattggcctc atgtgccctg tggataatct tggctgttgg ttcatttttc 840
ttaactgaaa acagtggcag aaactatggg gatttttaaa tctctaggct agaacattaa 900
ctttttaaaa attcagaata gtattttatt tgccccaagc ctgtgaatgg ggatcccaca 960
aatcaccccc cactgaagac aatgcccata acaaggtaac ct 1002

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<210> 236
 <211> 2002
 <212> DNA
 <213> homo sapiens

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<400> 236
ttatgcaagt tgtaacatt agaggagact gagtgaagg tatgcatgaa ctctctgtac 60
taattttgta aattttctgt aagtctaaaa ttattcataa tatgcaaaaa ttaaacaaaa 120
aataaaataa aataagcaca tggaatgaga ctgtccctg ggtctctgta gaaaccagg 180
caaacatccc aaatgctctt ttaccccat tctgagttgg gccagaatgg tcagaataat 240
ggttcccaat gtacottgat aaacacggaa actctcagga ccgagtccta aggttctctg 300
attcaatagg tttggagtgg acttgagaac tgatcttttt aataagggcc tcagtctgtg 360
gaactatttg cctcatgtgc cctgtggata atcttggctg ttgggttcatt tttcttaact 420
gaaaacagtg gcagaaacta tggggatttt taaatctcta ggctagaaca ttaacttttt 480
aaaaattcag aatagtattt tatttgctc aagcctgtga atggggatcc cacaatcac 540
ccccactga agacaatgcc cataacaagg taacctacc atgagcttct gagggattta 600
ggaattgtct accatctct ctctaagaag ggctcccaca atatatccc tctgcttgc 660
ttctaactcc ctatcacctg ctaagaagg acctcacctt ttaatcactt tcattgccaa 720

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ggggcacaag gagccccaaa ctctgtcacc taggaagagc ttgacctcat ggtttccaca 780
ctgtgtgctt ttatgtccct gctccaggag atgatggaca ttgtcaaagc catctatgac 840
atgatgggga aatacacata tctgtgtctc aaagaggaca ctccaaggca gcatgtggac 900
gtcttcttcc aggttaagtgc acacaccctg cacatgagct gtaagcccag cctagatcaa 960
gtcaaccacac gagcatctga gcaaatgatt tgtgtccaac ctctgtacta agcatgggtg 1020
gtaacagaaa agaattataa gatacattgt cctcaagaaa cagatgatct ccttaagctg 1080
caagtgtaca tgacagaaga gaacaagaaa gtatattatt aaacgctagt ggtatagtat 1140
gaactctaaa tccataaaaa tttggggatc agggtaaaca cgaaagactt cattaattac 1200
aactgtggag gtgttaagca tttgtgtctg ggaagtaagg ggaaataaga ttggaaacta 1260
ggatagggcc agattatgag acctttaaat ggaagagttt ggccttgctc tggtagagga 1320
tgggcagcta gtgctgatcc ttgactaagg gagtgggtata atcattgggg catttttagga 1380
aaaaattaat ctagcgggtg agtatcagag aatatcaaga gtctactcta gttcaacctc 1440
ccactttgca gatgggaaaa gagagtctct tctggccttg tgcaagtttg tacagcaagt 1500
aacaggccag aatcagaacc tcttttgccc agtggttctgc cagatggaca gggtagcagg 1560
gagtctacag aagaagcaga ataagccagc agtgagggtg tgagtgtcca gagcaagtct 1620
tttgatttaa ggaagctcat ggggctcaaa gtgttgtaat caggacctaa ttggagtgtg 1680
ctggccagtg aaagacaact ctacttctca gggcaaagtt ggtaaatgaa atgaatgaaa 1740
tgagctccag ctggttactc tgagctccag caagaaagca ggggagtaag ctttggaaatg 1800
gagatcacca gattctgtaa agtgctttct gttatgtctt tcagaaaatg gacaaaaata 1860
aagatggcat cgtaacttta gatgaatttc ttgaatcatg tcaggaggta aggagagatc 1920
tcagggcaca ataactctac atctgggaaa ggaaacctgg ggcctgggga cctgcagaag 1980
gaaggtgatg agaaacctgc ac
2002

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<210> 237
<211> 1002
<212> DNA
<213> homo sapiens

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<400> 237
tctaactccc tatcacctgc taaagaagga cctcaccttt taatcacttt cattgccaaag 60
gggcacaagg agccccaaac tctgtcacct aggaagagct tgacctcatg gtttccacac 120
tgtgtgcttt tatgtccctg ctccaggaga tgatggacat tgtcaaagcc atctatgaca 180
tgatggggaa atacacatat cctgtgctca aagaggacac tccaaggcag catgtggacg 240
tcttcttcca ggtaagtgc cacaccctgc acatgagctg taagcccagc ctgatcaag 300
tcaaccacag agcatctgag caaatgattt gtgtccaacc ctgtactaag catgggttgg 360
aacagaaaag aattataaga tacattgtcc tcaagaaaca gatgatctcc ttaagctgca 420
agtgtacatg acagaagaga acaagaaagt atattattaa acgctagtgg tatagtatga 480
actctaatac cataaaaatt ctggggatca gggtaaaccac gaaagacttc attaattaca 540
actgtggagg tggttaagcat ttgtgtctgg gaagtaaggg gaaataagat tggaaactag 600
gatagggccg gattatgaga cttttaaatg gaagagtttg gccttgctct ggtacaggat 660
gggcagctag tgctgatcct tgactaaggg agtggtataa tcattggggc attttaggaa 720
aaaattaatc tagcggtgga gtatcagaga atatcaagag ttactctag ttcaacctcc 780
cactttgcag atgggaaaag agagtcctct ctggccttgt gcaagtttgt acagcaagta 840
acaggccaga atcagaacct cttttgccc gtgttctgcc agatggacag ggtagcaggg 900
agtctacaga agaagcagaa taagccagca gtgaggtgat gagtgtccag agcaagtctt 960
ttgatttaag gaagctcatg gggctcaaag tggtgtaatc ag
1002

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<210> 238
<211> 2002
<212> DNA
<213> homo sapiens

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<400> 238
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gatggacatt gtcaaagcca tctatgacat gatggggaaa tacacatatc ctgtgctcaa 120
agaggacact ccaaggcagc atgtggacgt cttcttccag gtaagtgcac acaccctgca 180
catgagctgt aagcccagcc tagatcaagt caaccacga gcatctgagc aaatgatttg 240

```

tgtccaaccc	tgtactaagc	atggttggtg	acagaaaaga	attataagat	acattgtcct	300
caagaaacag	atgatctcct	taagctgcaa	gtgtacatga	cagaagagaa	caagaaagta	360
tattattaaa	cgctagtggg	atagtatgaa	ctctaaatcc	ataaaaaatt	ggggatcagg	420
gtaaacacga	aagacttcat	taattacaac	tgtggagggtg	ttaagcattt	gtgtctggga	480
agtaagggga	aataagattg	gaaactagga	tagggccaga	ttatgagacc	tttaaattgga	540
agagtttggc	cttgctctgg	tacaggatgg	gcagctagtgt	ctgatccctg	actaagggag	600
tgggtataatc	attggggcat	tttaggaaaa	aattaatcta	gcgggtggagt	atcagagaat	660
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gttctgccag	atggacaggg	tagcagggag	tctacagaag	aagcagaata	agccagcagt	840
gaggtgatga	gtgtccagag	caagtctttt	gatttaagga	agctcatggg	gctcaaagtgt	900
ttgtaatcag	gacctaatgt	gagttgtctg	gccagtgaag	gacaactctc	attctcagggt	960
caaagttggt	taatgaaatg	aatgaaatga	gctccagctc	agttactctg	agctccagca	1020
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taattgcttc	atctactttt	gagaaatcca	tttgtacccc	cacattattt	tagaaatgtt	1920
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 <212> DNA
 <213> homo sapiens

<400> 239						
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tgcttcttac	tttgaactga	tcactttcta	ggccccacc	cttacttctt	gtttttcata	480
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<210> 240
 <211> 1002

197/203

<212> DNA
 <213> homo sapiens

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 cagggaggag actcagagtt ctaaccctct tgccctcctt ttttcccagg acgacaacat 180
 catgaggtct ctccagctgt ttcaaaatgt catgtaactg gtgacactca gccattcagc 240
 tctcagagac attgtactaa acaaccacct taacaccctg atctgccctt gttctgattt 300
 tacacaccaa ctcttgggac agaaacacct tttaaccttt ggaagaattc tctgctgaag 360
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 ctacactgg catttggtgt ggtagtacaa gtcctttaat atgtccagga agggagccat 900
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 ccaagaagtc cagaatgcct gcaaattgct gtaattttat ac 1002

<210> 241
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 <212> DNA
 <213> homo sapiens

<400> 241
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 aacaattagg atctgtcatg accagattgg gagagccagc acctaacata tgtgggatag 480
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 ccaattatta gtgcagttgt cctccatat gtgtgaagga tcagtcccag gactctccat 900
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 aatttggcct ccatatatgc aggtttcaca tcctataaat ac 1002

<210> 242
 <211> 200
 <212> DNA
 <213> homo sapiens

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 cttcaccaag agggagctgc aggtccttta tcgaggcttc aaaaatgtaa gaccocgtgca 180
 cgctctgaag gcctgggggg 200

198/203

<210> 243
 <211> 200
 <212> DNA
 <213> homo sapiens

<400> 243
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 cacaaggagc cccaaactct gtcacctagg aagagcttga cctcatgggt tccacactgt 180
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<210> 244
 <211> 200
 <212> DNA
 <213> homo sapiens

<400> 244
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 tctgtgtctc tcagagctcc attcttctc aagggggcac cttgcaaaaa aaaacaaaaa 180
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<210> 245
 <211> 200
 <212> DNA
 <213> homo sapiens

<400> 245
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 caaaaaaatg gggcagggta gggaaactgaa ggcaggagct cttcacagag catagccaca 180
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<210> 246
 <211> 403
 <212> DNA
 <213> homo sapiens

<400> 246
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 cttcacagag catagccaca tcctccaggc agacaagagg acgcaggagg caccattctg 180
 tgagagtatc acagtctgac ctcaaagaca cagcttcaca ctgtctgatg gcttgatggt 240
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<210> 247
 <211> 403
 <212> DNA
 <213> homo sapiens

<400> 247
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 ctttgtaacc gctctgtcga ttttattgag aggaactgtc cacgagaaac taagggtggac 180
 atttaatttg tatgacatca accaaggacg gatacataaa caaagaggta agtgagctgg 240

199/203

ggccaggggt	gtgagagggc	tccagtgaag	gtaactaacc	caacagaaaa	cagccccagg	300
catgaggata	gcactgtctg	aatgaggcag	gctctgcttt	ggggctaaca	gagctgggtcc	360
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<210> 248

<211> 1781

<212> DNA

<213> homo sapiens

<400> 248

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<210> 249

<211> 833

<212> DNA

<213> homo sapiens

<400> 249

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ttaattgcta	cattaccgct	gccatgtaag	aaagacagtc	agcaaagcct	gggagagctc	180
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taagtggaca	gcaggagtgg	gtggagagag	ggaggagag	tttgccctgc	aggctctctg	360
gatgcagaag	ccagactcgc	tgcagaggca	gctgtgctgt	tcccggagcc	tggctttcag	420
gggtgcatcc	gtcactcagg	gttcattcac	ccaggcaggc	tccaagttcc	tgggggtgcac	480
aaggtgggca	ctgtcccttc	tgggtgctga	cagcagagcc	tggctccct	ccgccaccat	540
gagcggctgc	tccaaaagat	gcaagcttgg	gttcgtgaaa	tttgcccaga	ccatctttaa	600

200/203

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gctcatcact gggaccctca gcaaaggat ggaaactggc cttgaccctt gctttctgtc 660
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ccaggctcttg gaaaaagctg gggaaattgg tggctgggat tcgaggttgc tgacaacctg 780
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<210> 250
 <211> 857
 <212> DNA
 <213> homo sapiens

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<400> 250
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tggaatgga gttggtg 857

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<210> 251
 <211> 890
 <212> DNA
 <213> homo sapiens

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<400> 251
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<210> 252
 <211> 943
 <212> DNA
 <213> homo sapiens

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<400> 252
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201/203

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cccttcccaa agggggccagg gagagggggt gctgatgaca tgatctcaga ggaaggccaa 180
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<210> 253
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 <212> DNA
 <213> homo sapiens

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<400> 253
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<210> 254
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 <212> DNA
 <213> homo sapiens

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<400> 254
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ccaccttcgt ggggggcaac tgtagggtga ttatgagcct tgggtctgtc tgtgtgtaca 840

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202/203

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<210> 255

<211> 890

<212> DNA

<213> homo sapiens

<400> 255

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<211> 1002

<212> DNA

<213> homo sapiens

<400> 256

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<211> 821

<212> DNA

<213> homo sapiens

<400> 257

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203/203

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<210> 258
<211> 573
<212> DNA
<213> homo sapiens

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<400> 258
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gagtcttacc tgggccttgg cctggcaatg ggg 573

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